

SEQUENCE LISTING

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<120> METHODS AND MATERIALS RELATING TO NOVEL SECRETED ADIPONECTIN-LIKE
POLYPEPTIDES AND POLYNUCLEOTIDES

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<150> US 09/552,317

<151> 2000-04-25

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Lys Leu Ala Val
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<213> Homo sapiens

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Met Leu Ile Gln Ser Glu Lys Lys	
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aca caa tta tcg aag act gaa tct gtc aaa gag tca gag tct cta atg	582
Thr Gln Leu Ser Lys Thr Glu Ser Val Lys Glu Ser Glu Ser Leu Met	
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Glu Phe Ala Gln Pro Glu Ile Gln Pro Gln Glu Phe Leu Asn Arg Arg	
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Tyr Met Thr Glu Val Asp Tyr Ser Asn Lys Gln Gly Glu Glu Gln Pro	
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Trp Glu Ala Asp Tyr Ala Arg Lys Pro Asn Leu Pro Lys Arg Trp Asp	
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atg ctt act gaa cca gat ggt caa gag aag aaa cag gag tcc ttt aag	774
Met Leu Thr Glu Pro Asp Gly Gln Glu Lys Lys Gln Glu Ser Phe Lys	
75 80 85	
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Ser Trp Glu Ala Ser Gly Lys His Gln Glu Val Ser Lys Pro Ala Val	
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Ser Leu Glu Gln Arg Lys Gln Asp Thr Ser Lys Leu Arg Ser Thr Leu	
105 110 115 120	
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Pro Glu Glu Gln Lys Lys Gln Glu Ile Ser Lys Ser Lys Pro Ser Pro	
125 130 135	
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Ser Gln Trp Lys Gln Asp Thr Pro Lys Ser Lys Ala Gly Tyr Val Gln	
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Glu Glu Gln Lys Lys Gln Glu Thr Pro Lys Leu Trp Pro Val Gln Leu	
155 160 165	
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Gln Lys Glu Gln Asp Pro Lys Lys Gln Thr Pro Lys Ser Trp Thr Pro	
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Ser Met Gln Ser Glu Gln Asn Thr Thr Lys Ser Trp Thr Thr Pro Met	
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Cys Glu Glu Gln Asp Ser Lys Gln Pro Glu Thr Pro Lys Ser Trp Glu	
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Ser Pro Lys Ser Trp Gly Val Ala Thr Ala Ser Leu Ile Pro Asn Asp	
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Gln Leu Leu Pro Arg Lys Leu Asn Thr Glu Pro Lys Asp Val Pro Lys	
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Val Leu Arg Lys Glu Lys Leu Gln Asp Leu Met Thr Gln Ile Gln Gly	
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Thr Cys Asn Phe Met Gln Glu Ser Val Leu Asp Phe Asp Lys Pro Ser	
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agt gca att cca acg tca caa ccg cct tca gct act cca ggt agc ccc	1494
Ser Ala Ile Pro Thr Ser Gln Pro Pro Ser Ala Thr Pro Gly Ser Pro	
315 320 325	
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Val Ala Ser Lys Glu Gln Asn Leu Ser Ser Gln Ser Asp Phe Leu Gln	
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Glu Pro Leu Gln Val Phe Asn Val Asn Ala Pro Leu Pro Pro Arg Lys	
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Glu Gln Glu Ile Lys Glu Ser Pro Tyr Ser Pro Gly Tyr Asn Gln Ser	
365 370 375	
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Phe Thr Thr Ala Ser Thr Gln Thr Pro Pro Gln Cys Gln Leu Pro Ser	
380 385 390	
ata cat gta gaa caa act gtc cat tct caa gag act gca gca aat tat	1734
Ile His Val Glu Gln Thr Val His Ser Gln Glu Thr Ala Ala Asn Tyr	
395 400 405	
cat cct gat gga act att caa gta agc aat ggt agc ctt gcc ttt tac	1782
His Pro Asp Gly Thr Ile Gln Val Ser Asn Gly Ser Leu Ala Phe Tyr	
410 415 420	
cca gca cag acg aat gtg ttt ccc aga cct act cag cca ttt gtc aat	1830

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aat Asn	tcc Ser	tat Tyr	cgg Arg 460	tcc Ser	cct Pro	ggg Gly	ggg Gly	tat Tyr 465	aaa Lys	ggg Gly	ttt Phe	gat Asp 470	act Thr	tat Tyr	aga Arg	1926
gga Gly	ctc Leu	cct Pro 475	tca Ser	att Ile	tcc Ser	aat Asn	gga Gly 480	aat Asn	tat Tyr	agc Ser	cag Gln 485	ctg Leu	cag Gln	ttc Phe	caa Gln	1974
gct Ala	aga Arg 490	gag Glu	tat Tyr	tct Ser	gga Gly 495	gca Ala	cct Pro	tat Tyr	tcc Ser	caa Gln 500	agg Arg	gat Asp	aat Asn	ttc Phe	cag Gln	2022
cag Gln 505	tgt Cys	tat Tyr	aag Lys	cga Arg 510	gga Gly	ggg Gly	aca Thr	tct Ser	ggg Gly 515	ggg Gly	cca Pro	cga Arg	gca Ala	aat Asn	tcc Ser 520	2070
aga Arg	gca Ala	ggg Gly	tgg Trp	agt Ser 525	gat Asp	tct Ser	tct Ser	cag Gln	gtg Val 530	agc Ser	agc Ser	cca Pro	gaa Glu	aga Arg 535	gac Asp	2118
aac Asn	gaa Glu	acc Thr 540	ttt Phe	aac Asn	agt Ser	ggg Gly	gac Asp	tct Ser 545	gga Gly	caa Gln	gga Gly	gac Asp 550	tcc Ser	cgt Arg	agc Ser	2166
atg Met	acc Thr 555	cct Pro	gtg Val	gat Asp	gtg Val	cca Pro	gtg Val 560	aca Thr	aat Asn	cca Pro	gca Ala 565	gcc Ala	acc Thr	ata Ile	ctg Leu	2214
cca Pro	gta Val 570	cac His	gtc Val	tac Tyr	cct Pro	ctg Leu 575	cct Pro	cag Gln	cag Gln	atg Met	cga Arg 580	gtt Val	gcc Ala	ttc Phe	tca Ser	2262
gca Ala 585	gcc Ala	aga Arg	acc Thr	tct Ser 590	aat Asn	ctg Leu	gcc Ala	cct Pro	gga Gly 595	act Thr 595	tta Leu	gac Asp	caa Gln	cct Pro	tat Tyr 600	2310
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ctt Leu	ggg Gly	aga Arg	ttt Phe 620	aat Asn	tgc Cys	cca Pro	gtg Val	aat Asn 625	ggc Gly	act Thr	tac Tyr	gtt Val 630	ttc Phe	att Ile	ttt Phe	2406
cac His	atg Met	cta Leu 635	aag Lys	ctg Leu	gca Ala	gtg Val	aat Asn 640	gtg Val	cca Pro	ctg Leu	tat Tyr	gtc Val 645	aac Asn	ctc Leu	atg Met	2454
aag Lys	aat Asn	gaa Glu	gag Glu	gtc Val	ttg Leu	gta Val	tca Ser	gcc Ala	tat Tyr	gcc Ala	aat Asn	gat Asp	ggg Gly	gct Ala	cca Pro	2502

1000549 1000549 1000549

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gac cag ata tgg tta cgt ctg cac agg gga gca att tat gga agt agc			2598
Asp Gln Ile Trp Leu Arg Leu His Arg Gly Ala Ile Tyr Gly Ser Ser			
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Pro Gln Glu Phe Leu Asn Arg Arg Tyr Met Thr Glu Val Asp Tyr Ser			
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Asn Lys Gln Gly Glu Glu Gln Pro Trp Glu Ala Asp Tyr Ala Arg Lys			
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Pro Asn Leu Pro Lys Arg Trp Asp Met Leu Thr Glu Pro Asp Gly Gln			
65	70	75	80
Glu Lys Lys Gln Glu Ser Phe Lys Ser Trp Glu Ala Ser Gly Lys His			
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Gln Glu Val Ser Lys Pro Ala Val Ser Leu Glu Gln Arg Lys Gln Asp			
	100	105	110
Thr Ser Lys Leu Arg Ser Thr Leu Pro Glu Glu Gln Lys Lys Gln Glu			
	115	120	125

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Lys	Ser	Lys	Ala	Gly	Tyr	Val	Gln	Glu	Glu	Gln	Lys	Lys	Gln	Glu	Thr	Pro
145					150					155						160
Pro	Lys	Leu	Trp	Pro	Val	Gln	Leu	Gln	Lys	Glu	Gln	Asp	Pro	Lys	Lys	
				165					170					175		
Gln	Thr	Pro	Lys	Ser	Trp	Thr	Pro	Ser	Met	Gln	Ser	Glu	Gln	Asn	Thr	
			180					185					190			
Thr	Lys	Ser	Trp	Thr	Thr	Pro	Met	Cys	Glu	Glu	Gln	Asp	Ser	Lys	Gln	
		195					200					205				
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Ser	Leu	Thr	Ser	Gln	Ser	Gln	Ile	Ser	Pro	Lys	Ser	Trp	Gly	Val	Ala	
225					230					235					240	
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				245					250					255		
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Ser	Ser	Thr	Leu	Pro	Lys	Asp	Pro	Val	Leu	Arg	Lys	Glu	Lys	Leu	Gln	
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Asp	Leu	Met	Thr	Gln	Ile	Gln	Gly	Thr	Cys	Asn	Phe	Met	Gln	Glu	Ser	
	290					295					300					
Val	Leu	Asp	Phe	Asp	Lys	Pro	Ser	Ser	Ala	Ile	Pro	Thr	Ser	Gln	Pro	
305					310					315					320	
Pro	Ser	Ala	Thr	Pro	Gly	Ser	Pro	Val	Ala	Ser	Lys	Glu	Gln	Asn	Leu	
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Tyr Ser Pro Gly Tyr Asn Gln Ser Phe Thr Thr Ala Ser Thr Gln Thr
370 375 380

Pro Pro Gln Cys Gln Leu Pro Ser Ile His Val Glu Gln Thr Val His
385 390 395 400

Ser Gln Glu Thr Ala Ala Asn Tyr His Pro Asp Gly Thr Ile Gln Val
405 410 415

Ser Asn Gly Ser Leu Ala Phe Tyr Pro Ala Gln Thr Asn Val Phe Pro
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Arg Pro Thr Gln Pro Phe Val Asn Ser Arg Gly Ser Val Arg Gly Cys
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Tyr Ser Gln Arg Asp Asn Phe Gln Gln Cys Tyr Lys Arg Gly Gly Thr
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Ser Gly Gly Pro Arg Ala Asn Ser Arg Ala Gly Trp Ser Asp Ser Ser
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Gln Val Ser Ser Pro Glu Arg Asp Asn Glu Thr Phe Asn Ser Gly Asp
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545 550 555 560

Thr Asn Pro Ala Ala Thr Ile Leu Pro Val His Val Tyr Pro Leu Pro
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Country	Year	Population (millions)	Urban population (millions)	Urban population (%)	Population density (per sq km)	Urban population density (per sq km)	Population growth rate (%)	Urban population growth rate (%)	Population growth rate (%)	Urban population growth rate (%)	Population growth rate (%)	Urban population growth rate (%)
Algeria	1980	10.0	4.0	40.0	100	250	1.5	2.5	1.5	2.5	1.5	2.5
Algeria	1985	10.5	4.5	42.9	105	263	1.8	3.0	1.8	3.0	1.8	3.0
Algeria	1990	11.0	5.0	45.5	110	276	2.1	3.5	2.1	3.5	2.1	3.5
Algeria	1995	11.5	5.5	47.8	115	289	2.4	4.0	2.4	4.0	2.4	4.0
Algeria	2000	12.0	6.0	50.0	120	302	2.7	4.5	2.7	4.5	2.7	4.5
Algeria	2005	12.5	6.5	52.0	125	315	3.0	5.0	3.0	5.0	3.0	5.0
Algeria	2010	13.0	7.0	53.8	130	328	3.3	5.5	3.3	5.5	3.3	5.5
Algeria	2015	13.5	7.5	55.6	135	341	3.6	6.0	3.6	6.0	3.6	6.0
Algeria	2020	14.0	8.0	57.1	140	354	3.9	6.5	3.9	6.5	3.9	6.5
Algeria	2025	14.5	8.5	58.6	145	367	4.2	7.0	4.2	7.0	4.2	7.0
Algeria	2030	15.0	9.0	60.0	150	380	4.5	7.5	4.5	7.5	4.5	7.5
Algeria	2035	15.5	9.5	61.3	155	393	4.8	8.0	4.8	8.0	4.8	8.0
Algeria	2040	16.0	10.0	62.5	160	406	5.1	8.5	5.1	8.5	5.1	8.5
Algeria	2045	16.5	10.5	63.6	165	419	5.4	9.0	5.4	9.0	5.4	9.0
Algeria	2050	17.0	11.0	64.7	170	432	5.7	9.5	5.7	9.5	5.7	9.5
Algeria	2055	17.5	11.5	65.7	175	445	6.0	10.0	6.0	10.0	6.0	10.0
Algeria	2060	18.0	12.0	66.7	180	458	6.3	10.5	6.3	10.5	6.3	10.5
Algeria	2065	18.5	12.5	67.6	185	471	6.6	11.0	6.6	11.0	6.6	11.0
Algeria	2070	19.0	13.0	68.4	190	484	6.9	11.5	6.9	11.5	6.9	11.5
Algeria	2075	19.5	13.5	69.2	195	497	7.2	12.0	7.2	12.0	7.2	12.0
Algeria	2080	20.0	14.0	70.0	200	510	7.5	12.5	7.5	12.5	7.5	12.5
Algeria	2085	20.5	14.5	70.7	205	523	7.8	13.0	7.8	13.0	7.8	13.0
Algeria	2090	21.0	15.0	71.4	210	536	8.1	13.5	8.1	13.5	8.1	13.5
Algeria	2095	21.5	15.5	72.1	215	549	8.4	14.0	8.4	14.0	8.4	14.0
Algeria	2100	22.0	16.0	72.7	220	562	8.7	14.5	8.7	14.5	8.7	14.5
Algeria	2105	22.5	16.5	73.3	225	575	9.0	15.0	9.0	15.0	9.0	15.0
Algeria	2110	23.0	17.0	73.9	230	588	9.3	15.5	9.3	15.5	9.3	15.5
Algeria	2115	23.5	17.5	74.5	235	601	9.6	16.0	9.6	16.0	9.6	16.0
Algeria	2120	24.0	18.0	75.0	240	614	9.9	16.5	9.9	16.5	9.9	16.5
Algeria	2125	24.5	18.5	75.5	245	627	10.2	17.0	10.2	17.0	10.2	17.0
Algeria	2130	25.0	19.0	76.0	250	64						

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Ile Trp Leu Arg
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<213> Homo sapiens

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	180			185		190
Glu Pro Asp Gly Gln Glu Lys Lys Gln Glu Ser Phe Lys Ser Trp Glu						
	195			200		205
Ala Ser Gly Lys His Gln Glu Val Ser Lys Pro Ala Val Ser Leu Glu						
	210			215		220
Gln Arg Lys Gln Asp Thr Ser Lys Leu Arg Ser Thr Leu Pro Glu Glu						
	225			230		235
Gln Lys Lys Gln Glu Ile Ser Lys Ser Lys Pro Ser Pro Ser Gln Trp						
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Lys Gln Asp Thr Pro Lys Ser Lys Ala Gly Tyr Val Gln Glu Glu His						
	260			265		270
Lys Lys Gln Glu Thr Pro Lys Leu Trp Pro Val Gln Leu Gln Lys Glu						
	275			280		285
Gln Asp Pro Lys Lys Gln Thr Pro Lys Ser Trp Thr Pro Ser Met Gln						
	290			295		300
Ser Glu Gln Asn Thr Thr Lys Ser Trp Thr Thr Pro Met Cys Glu Glu						
	305			310		315
Gln Asp Ser Lys Gln Pro Glu Thr Pro Lys Ser Trp Glu Asn Asn Val						
		325		330		335
Glu Ser Gln Lys His Ser Leu Thr Ser Gln Ser Gln Ile Ser Pro Lys						
	340			345		350
Ser Trp Gly Val Ala Thr Ala Ser Leu Ile Pro Asn Asp Gln Leu Leu						
	355			360		365
Pro Arg Lys Leu Asn Thr Glu Pro Lys Asp Val Pro Ile Ala Cys Ala						
	370			375		380

Ser Ala Gly Phe Leu Pro Leu Gln Pro Pro Phe Arg Arg Ile His Val
385 390 395 400

Leu Arg Lys Glu Lys Leu Gln Asp Leu Met Thr Gln Ile Gln Gly Thr
405 410 415

Cys Asn Phe Met Gln Glu Ser Val Leu Asp Phe Asp Lys Pro Ser Ser
420 425 430

Ala Ile Pro Thr Ser Gln Pro Pro Ser Ala Thr Pro Gly Pro Arg Arg
435 440 445

His Leu Lys Glu Gln Asn Leu Ser Val Lys Val Ile Phe Phe Gln Gly
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Ala Val Thr Val Phe Asn Val Asn Ala Pro Leu Pro Pro Arg Lys Glu
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Gln Glu Ile Lys Glu Ser Pro Tyr Ser Pro Gly Tyr Asn Gln Ser Phe
485 490 495

Thr Thr Ala Ser Thr Gln Thr Pro Pro Gln Cys Gln Leu Pro Ser Ile
500 505 510

His Val Glu Gln Thr Val His Ser Gln Glu Thr Ala Asn Tyr His Pro
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Asp Gly Thr Ile Gln Val Ser Asn Gly Ser Leu Ala Phe Tyr Pro Ala
530 535 540

Gln Thr Asn Val Phe Pro Arg Pro Thr Gln Pro Phe Val Asn Ser Arg
545 550 555 560

Gly Ser Val Arg Gly Cys Thr Arg Gly Gly Arg Leu Ile Thr Asn Ser
565 570 575

Tyr Arg Ser Pro Gly Gly Tyr Lys Gly Phe Asp Thr Tyr Arg Gly Leu
580 585 590

Pro Ser Ile Ser Asn Gly Asn Tyr Ser Gln Leu Gln Phe Gln Ala Arg
595 600 605

Glu Tyr Ser Gly Ala Pro Tyr Ser Gln Arg Asp Asn Phe Gln Gln Cys
610 615 620

Tyr Lys Arg Gly Gly Thr Ser Gly Gly Pro Arg Ala Asn Ser Arg Ala
625 630 635 640

Gly Trp Ser Asp Ser Ser Gln Val Ser Ser Pro Glu Arg Asp Asn Glu
645 650 655

Thr Phe Asn Ser Gly Asp Ser Gly Gln Gly Asp Ser Arg Ser Met Thr
660 665 670

Pro Val Asp Val Pro Val Thr Asn Pro Ala Ala Thr Ile Leu Pro Val
675 680 685

His Val Tyr Pro Leu Pro Gln Gln Met Arg Val Ala Phe Ser Ala Ala
690 695 700

Arg Thr Ser Asn Leu Ala Pro Gly Thr Leu Asp Gln Pro Ile Val Phe
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Arg Phe Asn Cys Pro Val Asn Gly Thr Tyr Val Phe Ile Phe His Met
740 745 750

Leu Lys Leu Ala Val Asn Val Pro Leu Tyr Val Asn Leu Met Lys Asn
755 760 765

Glu Glu Val Leu Val Ser Ala Tyr Ala Asn Asp Gly Ala Pro Asp His
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Glu Thr Ala Ser Asn His Ala Ile Leu Gln Leu Phe Gln Gly Asp Gln
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<213> Homo sapiens

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35 40 45

Gln Pro Pro Ala Gly Thr Gln Lys Pro Leu Leu Gln Gly Pro Gly Gly
50 55 60

Gly Pro Ala Glu Asn Ala Pro Thr Ala Ala Leu Gly Ser Pro Ala Pro
65 70 75 80

Pro Arg Gly Cys Gln Ala Ala Pro Pro Pro Arg Ser Gly Ala Gly Arg
85 90 95

Pro Asp Leu Pro Thr Leu Ala Gly Pro Arg Pro Ala Pro Ala Pro Pro
100 105 110

Pro Ser Ala Ala Pro Pro Pro Pro Pro Ser Gly Ala Pro Ser Arg Pro
115 120 125

Ala Ala Gly Arg Gln Arg Leu Ser Gly Val Ser Ser Gly Pro Ser Leu
130 135 140

Gly Trp Trp Val Gly Arg Gly Arg Gly Leu Pro Ala Phe Ala Gln Ile
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Ala Gly His Gln Val Gly Pro Arg Arg Arg Arg Thr Pro Ala Gly Arg
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Lys Pro Arg Ser Pro Ala Gly Pro Arg
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<213> Homo sapiens

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cacctttccc accggtgggg gcccagtgga agtttaacaa actgctgtat aacggcagac 420
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<211> 2487

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<213> Homo sapiens

<220>

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Met	
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Ala Val Leu Pro Gly Pro Leu Gln Leu Leu Gly Val Leu Leu Thr Ile	
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Lys Pro Leu Pro Pro Gln Ile Pro Pro Gln Met Pro Pro Gln Ile Pro	
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Gln Tyr Gln Pro Leu Gly Gln Gln Val Pro His Met Pro Leu Ala Lys	
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Asp Gly Leu Ala Met Gly Lys Glu Met Pro His Leu Gln Tyr Gly Lys	
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Glu Tyr Pro His Leu Pro Gln Tyr Met Lys Glu Ile Gln Pro Ala Pro	
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Arg Met Gly Lys Glu Ala Val Pro Lys Lys Gly Lys Glu Ile Pro Leu	
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Ala Ser Leu Arg Gly Glu Gln Gly Pro Arg Gly Glu Pro Gly Pro Arg	
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Ala	Leu	Gly	Pro	Arg	Gly	Glu	Lys	Gly	Pro	Ile	Gly	Ala	Pro	Gly	Ile	
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Gly	Pro	Pro	Gly	Ala	Ile	Gly	Phe	Pro	Gly	Pro	Lys	Gly	Glu	Gly	Gly	
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Ile	Val	Gly	Pro	Gln	Gly	Pro	Pro	Gly	Pro	Lys	Gly	Glu	Pro	Gly	Leu	
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Gln	Gly	Phe	Pro	Gly	Lys	Pro	Gly	Phe	Leu	Gly	Glu	Val	Gly	Pro	Pro	
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Gly	Met	Arg	Gly	Phe	Pro	Gly	Pro	Ile	Gly	Pro	Lys	Gly	Glu	His	Gly	
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Gln	Lys	Gly	Val	Pro	Gly	Leu	Pro	Gly	Val	Pro	Gly	Leu	Leu	Gly	Pro	
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Lys	Gly	Glu	Pro	Gly	Ile	Pro	Gly	Asp	Gln	Gly	Leu	Gln	Gly	Pro	Pro	
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Pro	Gln	Tyr	Gln	Pro	Leu	Gly	Gln	Gln	Val	Pro	His	Met	Pro	Leu	Ala	50	55	60	
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Pro	Arg	Met	Gly	Lys	Glu	Ala	Val	Pro	Lys	Lys	Gly	Lys	Glu	Ile	Pro	100	105	110	
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Lys Pro Gly Val Thr Gly Phe Pro Gly Pro Gln Gly Pro Leu Gly Lys
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Gly Val Gln Gly Pro Pro Gly Ile Pro Gly Ile Gly Lys Pro Gly Gln
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Asp Gly Ile Pro Gly Gln Pro Gly Phe Pro Gly Gly Lys Gly Glu Gln
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370 375 380

Ile Gly Gly Pro Pro Gly Glu Pro Gly Leu Pro Gly Ile Pro Gly Pro
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Gly Ile Val Gly Pro Gln Gly Pro Pro Gly Pro Lys Gly Glu Pro Gly
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Leu Gln Gly Phe Pro Gly Lys Pro Gly Phe Leu Gly Glu Val Gly Pro
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485 490 495

Pro Gly Ile Pro Gly Ile Gly Gly Pro Ser Gly Pro Ile Gly Pro Pro
500 505 510

Gly Ile Pro Gly Pro Lys Gly Glu Pro Gly Leu Pro Gly Pro Pro Gly
515 520 525

Phe Pro Gly Ile Gly Lys Pro Gly Val Ala Gly Leu His Gly Pro Pro
530 535 540

Gly Lys Pro Gly Ala Leu Gly Pro Gln Gly Gln Pro Gly Leu Pro Gly
545 550 555 560

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Ala Val Met Pro Pro
565 570 575

Thr Pro Pro Pro Gln Gly Glu Tyr Leu Pro Asp Met Gly Leu Gly Ile
580 585 590

Asp Gly Val Lys Pro Pro His Ala Tyr Gly Ala Lys Lys Gly Lys Asn
595 600 605

Gly Gly Pro Ala Tyr Glu Met Pro Ala Phe Thr Ala Glu Leu Thr Ala
610 615 620

Pro Phe Pro Pro Val Gly Ala Pro Val Lys Phe Asn Lys Leu Leu Tyr
625 630 635 640

Asn Gly Arg Gln Asn Tyr Asn Pro Gln Thr Gly Ile Phe Thr Cys Glu
645 650 655

Val Pro Gly Val Tyr Tyr Phe Ala Tyr His Val His Cys Lys Gly Gly
660 665 670

Asn Val Trp Val Ala Leu Phe Lys Asn Asn Glu Pro Val Met Tyr Thr
675 680 685

Tyr Asp Glu Tyr Lys Lys Gly Phe Leu Asp Gln Ala Ser Gly Ser Ala

690

695

700

Val Leu Leu Leu Arg Pro Gly Asp Arg Val Phe Leu Gln Met Pro Ser
705 710 715 720

Glu Gln Ala Ala Gly Leu Tyr Ala Gly Gln Tyr Val His Ser Ser Phe
725 730 735

Ser Gly Tyr Leu Leu Tyr Pro Met
740

<210> 29

<211> 2235

<212> DNA

<213> Homo sapiens

<400> 29
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tctgggagtg cagtgtgtgt gctcaggccc ggagaccggg tgttcctcca gatgccctca 2160
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<210> 30

<211> 27

<212> PRT

<213> Homo sapiens

<400> 30

Met Ala Val Leu Pro Gly Pro Leu Gln Leu Leu Gly Val Leu Leu Thr
1 5 10 15

Ile Ser Leu Ser Ser Ile Arg Leu Ile Gln Ala
20 25

<210> 31

<211> 717

<212> PRT

<213> Homo sapiens

<400> 31

Gly Ala Tyr Tyr Gly Ile Lys Pro Leu Pro Pro Gln Ile Pro Pro Gln
1 5 10 15

Met Pro Pro Gln Ile Pro Gln Tyr Gln Pro Leu Gly Gln Gln Val Pro
20 25 30

His Met Pro Leu Ala Lys Asp Gly Leu Ala Met Gly Lys Glu Met Pro
35 40 45

His Leu Gln Tyr Gly Lys Glu Tyr Pro His Leu Pro Gln Tyr Met Lys
50 55 60

Glu Ile Gln Pro Ala Pro Arg Met Gly Lys Glu Ala Val Pro Lys Lys
65 70 75 80

Gly Lys Glu Ile Pro Leu Ala Ser Leu Arg Gly Glu Gln Gly Pro Arg
85 90 95

Gly Glu Pro Gly Pro Arg Gly Pro Pro Gly Pro Pro Gly Leu Pro Gly
100 105 110

His Gly Ile Pro Gly Ile Lys Gly Lys Pro Gly Pro Gln Gly Tyr Pro
115 120 125

Gly Val Gly Lys Pro Gly Met Pro Gly Met Pro Gly Lys Pro Gly Ala
130 135 140

Met Gly Met Pro Gly Ala Lys Gly Glu Ile Gly Gln Lys Gly Glu Ile
145 150 155 160

Gly Pro Met Gly Ile Pro Gly Pro Gln Gly Pro Pro Gly Pro His Gly
165 170 175

Leu Pro Gly Ile Gly Lys Pro Gly Gly Pro Gly Leu Pro Gly Gln Pro
180 185 190

Gly Pro Lys Gly Asp Arg Gly Pro Lys Gly Leu Pro Gly Pro Gln Gly
195 200 205

Leu Arg Gly Pro Lys Gly Asp Lys Gly Phe Gly Met Pro Gly Ala Pro
210 215 220

Gly Val Lys Gly Pro Pro Gly Met His Gly Pro Pro Gly Pro Val Gly
225 230 235 240

Leu Pro Gly Val Gly Lys Pro Gly Val Thr Gly Phe Pro Gly Pro Gln
245 250 255

Gly Pro Leu Gly Lys Pro Gly Ala Pro Gly Glu Pro Gly Pro Gln Gly
260 265 270

Pro Ile Gly Val Pro Gly Val Gln Gly Pro Pro Gly Ile Pro Gly Ile
275 280 285

Gly Lys Pro Gly Gln Asp Gly Ile Pro Gly Gln Pro Gly Phe Pro Gly
290 295 300

Gly Lys Gly Glu Gln Gly Leu Pro Gly Leu Pro Gly Pro Pro Gly Leu
305 310 315 320

Pro Gly Ile Gly Lys Pro Gly Phe Pro Gly Pro Lys Gly Asp Arg Gly
325 330 335

Met Gly Gly Val Pro Gly Ala Leu Gly Pro Arg Gly Glu Lys Gly Pro
340 345 350

Ile Gly Ala Pro Gly Ile Gly Gly Pro Pro Gly Glu Pro Gly Leu Pro
355 360 365

Gly Ile Pro Gly Pro Met Gly Pro Pro Gly Ala Ile Gly Phe Pro Gly

370

375

380

Pro Lys Gly Glu Gly Gly Ile Val Gly Pro Gln Gly Pro Pro Gly Pro
385 390 395 400

Lys Gly Glu Pro Gly Leu Gln Gly Phe Pro Gly Lys Pro Gly Phe Leu
405 410 415

Gly Glu Val Gly Pro Pro Gly Met Arg Gly Phe Pro Gly Pro Ile Gly
420 425 430

Pro Lys Gly Glu His Gly Gln Lys Gly Val Pro Gly Leu Pro Gly Val
435 440 445

Pro Gly Leu Leu Gly Pro Lys Gly Glu Pro Gly Ile Pro Gly Asp Gln
450 455 460

Gly Leu Gln Gly Pro Pro Gly Ile Pro Gly Ile Gly Gly Pro Ser Gly
465 470 475 480

Pro Ile Gly Pro Pro Gly Ile Pro Gly Pro Lys Gly Glu Pro Gly Leu
485 490 495

Pro Gly Pro Pro Gly Phe Pro Gly Ile Gly Lys Pro Gly Val Ala Gly
500 505 510

Leu His Gly Pro Pro Gly Lys Pro Gly Ala Leu Gly Pro Gln Gly Gln
515 520 525

Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
530 535 540

Ala Val Met Pro Pro Thr Pro Pro Pro Gln Gly Glu Tyr Leu Pro Asp
545 550 555 560

Met Gly Leu Gly Ile Asp Gly Val Lys Pro Pro His Ala Tyr Gly Ala
565 570 575

Lys Lys Gly Lys Asn Gly Gly Pro Ala Tyr Glu Met Pro Ala Phe Thr
580 585 590

Ala Glu Leu Thr Ala Pro Phe Pro Pro Val Gly Ala Pro Val Lys Phe
595 600 605

10005493 10004

Asn Lys Leu Leu Tyr Asn Gly Arg Gln Asn Tyr Asn Pro Gln Thr Gly
610 615 620

Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe Ala Tyr His Val
625 630 635 640

His Cys Lys Gly Gly Asn Val Trp Val Ala Leu Phe Lys Asn Asn Glu
645 650 655

Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys Gly Phe Leu Asp Gln
660 665 670

Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly Asp Arg Val Phe
675 680 685

Leu Gln Met Pro Ser Glu Gln Ala Ala Gly Leu Tyr Ala Gly Gln Tyr
690 695 700

Val His Ser Ser Phe Ser Gly Tyr Leu Leu Tyr Pro Met
705 710 715

<210> 32

<211> 36

<212> PRT

<213> Homo sapiens

<400> 32

Pro Val Lys Phe Asn Lys Leu Leu Tyr Asn Gly Arg Gln Asn Tyr Asn
1 5 10 15

Pro Gln Thr Gly Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe
20 25 30

Ala Tyr His Val
35

<210> 33

<211> 20

<212> PRT

<213> Homo sapiens

<400> 33

Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr Phe Ala Tyr His Val His
1 5 10 15

Cys Lys Gly Gly
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<210> 34

<211> 27

<212> PRT

<213> Homo sapiens

<400> 34

Phe Pro Pro Val Gly Ala Pro Val Lys Phe Asn Lys Leu Leu Tyr Asn
1 5 10 15

Gly Arg Gln Asn Tyr Asn Pro Gln Thr Gly Ile
20 25

<210> 35

<211> 22

<212> PRT

<213> Homo sapiens

<400> 35

Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly Asp Arg
1 5 10 15

Val Phe Leu Gln Met Pro
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<210> 36

<211> 20

<212> PRT

<213> Homo sapiens

<400> 36

Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro Gly Asp Arg
1 5 10 15

Val Phe Leu Gln
20

<210> 37

<211> 27

<212> PRT

<213> Homo sapiens

<400> 37

Pro Gly Pro His Gly Leu Pro Gly Ile Gly Lys Pro Gly Gly Pro Gly
1 5 10 15

Leu Pro Gly Gln Pro Gly Pro Lys Gly Asp Arg
20 25

<210> 38

<211> 29

<212> PRT

<213> Homo sapiens

<400> 38

Gly Pro Pro Gly Ala Ile Gly Phe Pro Gly Pro Lys Gly Glu Gly Gly
1 5 10 15

Ile Val Gly Pro Gln Gly Pro Pro Gly Pro Lys Gly Glu

20

25

<210> 39

<211> 27

<212> PRT

<213> Homo sapiens

<400> 39

Gly Pro Pro Gly Ile Pro Gly Ile Gly Gly Pro Ser Gly Pro Ile Gly
1 5 10 15

Pro Pro Gly Ile Pro Gly Pro Lys Gly Glu Pro
20 25

<210> 40

<211> 27

<212> PRT

<213> Homo sapiens

<400> 40

Gly Pro Pro Gly Glu Pro Gly Leu Pro Gly Ile Pro Gly Pro Met Gly
1 5 10 15

Pro Pro Gly Ala Ile Gly Phe Pro Gly Pro Lys
20 25

<210> 41

<211> 27

<212> PRT

<213> Homo sapiens

<400> 41

Gly Val Pro Gly Leu Leu Gly Pro Lys Gly Glu Pro Gly Ile Pro Gly
1 5 10 15

Asp Gln Gly Leu Gln Gly Pro Pro Gly Ile Pro
 20 25

<210> 42

<211> 27

<212> PRT

<213> Homo sapiens

<400> 42

Gly Lys Pro Gly Met Pro Gly Met Pro Gly Lys Pro Gly Ala Met Gly
 1 5 10 15

Met Pro Gly Ala Lys Gly Glu Ile Gly Gln Lys
 20 25

<210> 43

<211> 11

<212> PRT

<213> Homo sapiens

<400> 43

Val His Ser Ser Phe Ser Gly Tyr Leu Leu Tyr
 1 5 10

<210> 44

<211> 27

<212> PRT

<213> Homo sapiens

<400> 44

Gly Gly Pro Gly Leu Pro Gly Gln Pro Gly Pro Lys Gly Asp Arg Gly
 1 5 10 15

Gly Ala Pro Gly Ile Gly Gly Pro Pro Gly Glu Pro Gly Leu Pro Gly
 1 5 10 15

Ile Pro Gly Pro Met Gly Pro Pro Gly Ala Ile
 20 25

<210> 48

<211> 27

<212> PRT

<213> Homo sapiens

<400> 48

Gly Lys Pro Gly Gln Asp Gly Ile Pro Gly Gln Pro Gly Phe Pro Gly
 1 5 10 15

Gly Lys Gly Glu Gln Gly Leu Pro Gly Leu Pro
 20 25

<210> 49

<211> 29

<212> PRT

<213> Homo sapiens

<400> 49

Gly Phe Pro Gly Lys Pro Gly Phe Leu Gly Glu Val Gly Pro Pro Gly
 1 5 10 15

Met Arg Gly Phe Pro Gly Pro Ile Gly Pro Lys Gly Glu
 20 25

<210> 50

<211> 27

<212> PRT

<213> Homo sapiens

<400> 50

Gly Pro Pro Gly Ile Pro Gly Pro Lys Gly Glu Pro Gly Leu Pro Gly
1 5 10 15

Pro Pro Gly Phe Pro Gly Ile Gly Lys Pro Gly
20 25

<210> 51

<211> 27

<212> PRT

<213> Homo sapiens

<400> 51

Gly Met Pro Gly Ala Pro Gly Val Lys Gly Pro Pro Gly Met His Gly
1 5 10 15

Pro Pro Gly Pro Val Gly Leu Pro Gly Val Gly
20 25

<210> 52

<211> 27

<212> PRT

<213> Homo sapiens

<400> 52

Gly Phe Pro Gly Pro Gln Gly Pro Leu Gly Lys Pro Gly Ala Pro Gly
1 5 10 15

Glu Pro Gly Pro Gln Gly Pro Ile Gly Val Pro
20 25

<210> 53

<211> 27

<212> PRT

<213> Homo sapiens

<400> 53

Gly Pro Pro Gly Lys Pro Gly Ala Leu Gly Pro Gln Gly Gln Pro Gly
1 5 10 15
Leu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
20 25

<210> 54

<211> 27

<212> PRT

<213> Homo sapiens

<400> 54

Gly Pro Ser Gly Pro Ile Gly Pro Pro Gly Ile Pro Gly Pro Lys Gly
1 5 10 15
Glu Pro Gly Leu Pro Gly Pro Pro Gly Phe Pro
20 25

<210> 55

<211> 27

<212> PRT

<213> Homo sapiens

<400> 55

Gly Leu Pro Gly Ile Pro Gly Pro Met Gly Pro Pro Gly Ala Ile Gly
1 5 10 15
Phe Pro Gly Pro Lys Gly Glu Gly Gly Ile Val
20 25

<210> 56

<211> 27

<212> PRT

<213> Homo sapiens

<400> 56

Gly Lys Pro Gly Ala Leu Gly Pro Gln Gly Gln Pro Gly Leu Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro
20 25

<210> 57

<211> 29

<212> PRT

<213> Homo sapiens

<400> 57

Gly Pro Pro Gly Glu Pro Gly Leu Pro Gly Ile Pro Gly Pro Met Gly
1 5 10 15

Pro Pro Gly Ala Ile Gly Phe Pro Gly Pro Lys Gly Glu
20 25

<210> 58

<211> 29

<212> PRT

<213> Homo sapiens

<400> 58

Gly Pro Ile Gly Pro Lys Gly Glu His Gly Gln Lys Gly Val Pro Gly
1 5 10 15

Leu Pro Gly Val Pro Gly Leu Leu Gly Pro Lys Gly Glu
20 25

<210> 59

<211> 27

<212> PRT

<213> Homo sapiens

<400> 59

Pro Gly Ile Gly Lys Pro Gly Gly Pro Gly Leu Pro Gly Gln Pro Gly
1 5 10 15

Pro Lys Gly Asp Arg Gly Pro Lys Gly Leu Pro
20 25

<210> 60

<211> 27

<212> PRT

<213> Homo sapiens

<400> 60

Gly Ile Gly Gly Pro Ser Gly Pro Ile Gly Pro Pro Gly Ile Pro Gly
1 5 10 15

Pro Lys Gly Glu Pro Gly Leu Pro Gly Pro Pro
20 25

<210> 61

<211> 27

<212> PRT

<213> Homo sapiens

<400> 61

Gly Pro Pro Gly Met Arg Gly Phe Pro Gly Pro Ile Gly Pro Lys Gly
1 5 10 15

Glu His Gly Gln Lys Gly Val Pro Gly Leu Pro

20

25

<210> 62

<211> 10

<212> PRT

<213> Homo sapiens

<400> 62

Ser Ser Phe Ser Gly Tyr Leu Leu Tyr Pro
 1 5 10

<210> 63

<211> 27

<212> PRT

<213> Homo sapiens

<400> 63

Gly Lys Pro Gly Gly Pro Gly Leu Pro Gly Gln Pro Gly Pro Lys Gly
 1 5 10 15

Asp Arg Gly Pro Lys Gly Leu Pro Gly Pro Gln
 20 25

<210> 64

<211> 29

<212> PRT

<213> Homo sapiens

<400> 64

Gly Glu Pro Gly Leu Pro Gly Ile Pro Gly Pro Met Gly Pro Pro Gly
 1 5 10 15

Ala Ile Gly Phe Pro Gly Pro Lys Gly Glu Gly Gly Ile
 20 25

<210> 65

<211> 29

<212> PRT

<213> Homo sapiens

<400> 65

Pro Gly Ile Gly Lys Pro Gly Phe Pro Gly Pro Lys Gly Asp Arg Gly
1 5 10 15

Met Gly Gly Val Pro Gly Ala Leu Gly Pro Arg Gly Glu
20 25

<210> 66

<211> 27

<212> PRT

<213> Homo sapiens

<400> 66

Gly Pro Gln Gly Pro Pro Gly Pro Lys Gly Glu Pro Gly Leu Gln Gly
1 5 10 15

Phe Pro Gly Lys Pro Gly Phe Leu Gly Glu Val
20 25

<210> 67

<211> 27

<212> PRT

<213> Homo sapiens

<400> 67

Pro Gly Pro Gln Gly Tyr Pro Gly Val Gly Lys Pro Gly Met Pro Gly
1 5 10 15

Met Pro Gly Lys Pro Gly Ala Met Gly Met Pro
20 25

<210> 68

<211> 27

<212> PRT

<213> Homo sapiens

<400> 68

Gly Ile Pro Gly Ile Gly Gly Pro Ser Gly Pro Ile Gly Pro Pro Gly
1 5 10 15

Ile Pro Gly Pro Lys Gly Glu Pro Gly Leu Pro
20 25

<210> 69

<211> 27

<212> PRT

<213> Homo sapiens

<400> 69

Gly Pro Arg Gly Glu Lys Gly Pro Ile Gly Ala Pro Gly Ile Gly Gly
1 5 10 15

Pro Pro Gly Glu Pro Gly Leu Pro Gly Ile Pro
20 25

<210> 70

<211> 29

<212> PRT

<213> Homo sapiens

<400> 70

Gly Lys Pro Gly Phe Leu Gly Glu Val Gly Pro Pro Gly Met Arg Gly
 1 5 10 15

Phe Pro Gly Pro Ile Gly Pro Lys Gly Glu His Gly Gln
 20 25

<210> 71

<211> 27

<212> PRT

<213> Homo sapiens

<400> 71

Gly Glu Pro Gly Pro Gln Gly Pro Ile Gly Val Pro Gly Val Gln Gly
 1 5 10 15

Pro Pro Gly Ile Pro Gly Ile Gly Lys Pro Gly
 20 25

<210> 72

<211> 27

<212> PRT

<213> Homo sapiens

<400> 72

Gly Ile Gly Gly Pro Pro Gly Glu Pro Gly Leu Pro Gly Ile Pro Gly
 1 5 10 15

Pro Met Gly Pro Pro Gly Ala Ile Gly Phe Pro
 20 25

<210> 73

<211> 27

<212> PRT

<213> Homo sapiens

<400> 73

Gly Lys Pro Gly Ala Pro Gly Glu Pro Gly Pro Gln Gly Pro Ile Gly
1 5 10 15

Val Pro Gly Val Gln Gly Pro Pro Gly Ile Pro
20 25

<210> 74

<211> 27

<212> PRT

<213> Homo sapiens

<400> 74

Gly Leu Pro Gly Gln Pro Gly Pro Lys Gly Asp Arg Gly Pro Lys Gly
1 5 10 15

Leu Pro Gly Pro Gln Gly Leu Arg Gly Pro Lys
20 25

<210> 75

<211> 27

<212> PRT

<213> Homo sapiens

<400> 75

Gly Val Pro Gly Leu Pro Gly Val Pro Gly Leu Leu Gly Pro Lys Gly
1 5 10 15

Glu Pro Gly Ile Pro Gly Asp Gln Gly Leu Gln
20 25

<210> 76

<211> 27

<212> PRT

<213> Homo sapiens

<400> 76

Gly Lys Pro Gly Phe Leu Gly Glu Val Gly Pro Pro Gly Met Arg Gly
1 5 10 15

Phe Pro Gly Pro Ile Gly Pro Lys Gly Glu His
20 25

<210> 77

<211> 27

<212> PRT

<213> Homo sapiens

<400> 77

Gly Phe Pro Gly Pro Ile Gly Pro Lys Gly Glu His Gly Gln Lys Gly
1 5 10 15

Val Pro Gly Leu Pro Gly Val Pro Gly Leu Leu
20 25

<210> 78

<211> 27

<212> PRT

<213> Homo sapiens

<400> 78

Gln Gly Pro Pro Gly Ile Pro Gly Ile Gly Lys Pro Gly Gln Asp Gly
1 5 10 15

Ile Pro Gly Gln Pro Gly Phe Pro Gly Gly Lys
20 25

<210> 79

<211> 27

<210> 82

<211> 27

<212> PRT

<213> Homo sapiens

<400> 82

Gly Pro Met Gly Pro Pro Gly Ala Ile Gly Phe Pro Gly Pro Lys Gly
1 5 10 15

Glu Gly Gly Ile Val Gly Pro Gln Gly Pro Pro
20 25

<210> 83

<211> 29

<212> PRT

<213> Homo sapiens

<400> 83

Gly Pro Ile Gly Ala Pro Gly Ile Gly Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Leu Pro Gly Ile Pro Gly Pro Met Gly Pro Pro Gly Ala
20 25

<210> 84

<211> 27

<212> PRT

<213> Homo sapiens

<400> 84

Gly Pro Leu Gly Lys Pro Gly Ala Pro Gly Glu Pro Gly Pro Gln Gly
1 5 10 15

Pro Ile Gly Val Pro Gly Val Gln Gly Pro Pro

Gly Leu Leu Gly Pro Lys Gly Glu Pro Gly Ile Pro Gly Asp Gln Gly
1 5 10 15

Leu Gln Gly Pro Pro Gly Ile Pro Gly Ile Gly
20 25

<210> 91

<211> 27

<212> PRT

<213> Homo sapiens

<400> 91

Gly Phe Pro Gly Gly Lys Gly Glu Gln Gly Leu Pro Gly Leu Pro Gly
1 5 10 15

Pro Pro Gly Leu Pro Gly Ile Gly Lys Pro Gly
20 25

<210> 92

<211> 27

<212> PRT

<213> Homo sapiens

<400> 92

Gly Phe Pro Gly Lys Pro Gly Phe Leu Gly Glu Val Gly Pro Pro Gly
1 5 10 15

Met Arg Gly Phe Pro Gly Pro Ile Gly Pro Lys
20 25

<210> 93

<211> 27

<212> PRT

<213> Homo sapiens

<400> 93

Gly Pro Gln Gly Gln Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Ala Val Met Pro Pro Thr
20 25

<210> 94

<211> 29

<212> PRT

<213> Homo sapiens

<400> 94

Gly Ile Pro Gly Gln Pro Gly Phe Pro Gly Gly Lys Gly Glu Gln Gly
1 5 10 15

Leu Pro Gly Leu Pro Gly Pro Pro Gly Leu Pro Gly Ile
20 25

<210> 95

<211> 27

<212> PRT

<213> Homo sapiens

<400> 95

Pro Gly Ile Gly Lys Pro Gly Gln Asp Gly Ile Pro Gly Gln Pro Gly
1 5 10 15

Phe Pro Gly Gly Lys Gly Glu Gln Gly Leu Pro
20 25

<210> 96

<211> 27

<212> PRT

<213> Homo sapiens

<400> 96

Gly Leu His Gly Pro Pro Gly Lys Pro Gly Ala Leu Gly Pro Gln Gly
1 5 10 15

Gln Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro
20 25

<210> 97

<211> 29

<212> PRT

<213> Homo sapiens

<400> 97

Gln Gly Tyr Pro Gly Val Gly Lys Pro Gly Met Pro Gly Met Pro Gly
1 5 10 15

Lys Pro Gly Ala Met Gly Met Pro Gly Ala Lys Gly Glu
20 25

<210> 98

<211> 27

<212> PRT

<213> Homo sapiens

<400> 98

Gly Gln Lys Gly Val Pro Gly Leu Pro Gly Val Pro Gly Leu Leu Gly
1 5 10 15

Pro Lys Gly Glu Pro Gly Ile Pro Gly Asp Gln
20 25

<210> 99

<210> 102
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 102
 Gly Val Ala Gly Leu His Gly Pro Pro Gly Lys Pro Gly Ala Leu Gly
 1 5 10 15
 Pro Gln Gly Gln Pro Gly Leu Pro Gly Pro Pro
 20 25

<210> 103
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 103
 Pro Gly Pro Pro Gly Leu Pro Gly Ile Gly Lys Pro Gly Phe Pro Gly
 1 5 10 15
 Pro Lys Gly Asp Arg Gly Met Gly Gly Val Pro
 20 25

<210> 104
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 104
 Gly Pro Pro Gly Lys Pro Gly Ala Leu Gly Pro Gln Gly Gln Pro Gly
 1 5 10 15

Leu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro
20 25

<210> 105

<211> 27

<212> PRT

<213> Homo sapiens

<400> 105

Gly Gln Pro Gly Phe Pro Gly Gly Lys Gly Glu Gln Gly Leu Pro Gly
1 5 10 15

Leu Pro Gly Pro Pro Gly Leu Pro Gly Ile Gly
20 25

<210> 106

<211> 29

<212> PRT

<213> Homo sapiens

<400> 106

Gly Lys Pro Gly Phe Pro Gly Pro Lys Gly Asp Arg Gly Met Gly Gly
1 5 10 15

Val Pro Gly Ala Leu Gly Pro Arg Gly Glu Lys Gly Pro
20 25

<210> 107

<211> 15

<212> PRT

<213> Homo sapiens

<400> 107

Gly Pro Pro Gly Pro Pro Ala Val Met Pro Pro Thr Pro Pro Pro

1 5 10 15

<210> 108

<211> 29

<212> PRT

<213> Homo sapiens

<400> 108

Pro Gly Val Gly Lys Pro Gly Met Pro Gly Met Pro Gly Lys Pro Gly
1 5 10 15

Ala Met Gly Met Pro Gly Ala Lys Gly Glu Ile Gly Gln
20 25

<210> 109

<211> 27

<212> PRT

<213> Homo sapiens

<400> 109

Gly Pro Lys Gly Glu His Gly Gln Lys Gly Val Pro Gly Leu Pro Gly
1 5 10 15

Val Pro Gly Leu Leu Gly Pro Lys Gly Glu Pro
20 25

<210> 110

<211> 27

<212> PRT

<213> Homo sapiens

<400> 110

Gly Pro Gln Gly Pro Leu Gly Lys Pro Gly Ala Pro Gly Glu Pro Gly
1 5 10 15

Pro Gln Gly Pro Ile Gly Val Pro Gly Val Gln
20 25

<210> 111

<211> 33

<212> PRT

<213> Homo sapiens

<400> 111

Leu Gly Pro Gln Gly Gln Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro
1 5 10 15

Gly Pro Pro Gly Pro Pro Ala Val Met Pro Pro Thr Pro Pro Pro Gln
20 25 30

Gly

<210> 112

<211> 27

<212> PRT

<213> Homo sapiens

<400> 112

Gly Met Pro Gly Lys Pro Gly Ala Met Gly Met Pro Gly Ala Lys Gly
1 5 10 15

Glu Ile Gly Gln Lys Gly Glu Ile Gly Pro Met
20 25

<210> 113

<211> 27

<212> PRT

<213> Homo sapiens

<400> 113

Gly Val Pro Gly Ala Leu Gly Pro Arg Gly Glu Lys Gly Pro Ile Gly
1 5 10 15

Ala Pro Gly Ile Gly Gly Pro Pro Gly Glu Pro
20 25

<210> 114

<211> 27

<212> PRT

<213> Homo sapiens

<400> 114

Gly Gln Pro Gly Pro Lys Gly Asp Arg Gly Pro Lys Gly Leu Pro Gly
1 5 10 15

Pro Gln Gly Leu Arg Gly Pro Lys Gly Asp Lys
20 25

<210> 115

<211> 27

<212> PRT

<213> Homo sapiens

<400> 115

Gly Pro Ile Gly Pro Pro Gly Ile Pro Gly Pro Lys Gly Glu Pro Gly
1 5 10 15

Leu Pro Gly Pro Pro Gly Phe Pro Gly Ile Gly
20 25

<210> 116

<211> 27

<212> PRT

<213> Homo sapiens

<400> 116

Gly Lys Pro Gly Val Ala Gly Leu His Gly Pro Pro Gly Lys Pro Gly
1 5 10 15

Ala Leu Gly Pro Gln Gly Gln Pro Gly Leu Pro
20 25

<210> 117

<211> 27

<212> PRT

<213> Homo sapiens

<400> 117

Gly Glu Pro Gly Leu Pro Gly Ile Pro Gly Pro Met Gly Pro Pro Gly
1 5 10 15

Ala Ile Gly Phe Pro Gly Pro Lys Gly Glu Gly
20 25

<210> 118

<211> 27

<212> PRT

<213> Homo sapiens

<400> 118

Pro Gly Pro Val Gly Leu Pro Gly Val Gly Lys Pro Gly Val Thr Gly
1 5 10 15

Phe Pro Gly Pro Gln Gly Pro Leu Gly Lys Pro
20 25

<210> 119

<210> 122

<211> 27

<212> PRT

<213> Homo sapiens

<400> 122

Gly Glu Gly Gly Ile Val Gly Pro Gln Gly Pro Pro Gly Pro Lys Gly
1 5 10 15

Glu Pro Gly Leu Gln Gly Phe Pro Gly Lys Pro
20 25

<210> 123

<211> 29

<212> PRT

<213> Homo sapiens

<400> 123

Gly Leu Gln Gly Pro Pro Gly Ile Pro Gly Ile Gly Gly Pro Ser Gly
1 5 10 15

Pro Ile Gly Pro Pro Gly Ile Pro Gly Pro Lys Gly Glu
20 25

<210> 124

<211> 24

<212> PRT

<213> Homo sapiens

<400> 124

Gly Gln Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15

Pro Pro Ala Val Met Pro Pro Thr
20

<210> 125

<211> 27

<212> PRT

<213> Homo sapiens

<400> 125

Gly Pro Pro Gly Pro Lys Gly Glu Pro Gly Leu Gln Gly Phe Pro Gly
1 5 10 15

Lys Pro Gly Phe Leu Gly Glu Val Gly Pro Pro
20 25

<210> 126

<211> 27

<212> PRT

<213> Homo sapiens

<400> 126

Gly Ile Pro Gly Asp Gln Gly Leu Gln Gly Pro Pro Gly Ile Pro Gly
1 5 10 15

Ile Gly Gly Pro Ser Gly Pro Ile Gly Pro Pro
20 25

<210> 127

<211> 29

<212> PRT

<213> Homo sapiens

<400> 127

Gly Glu Pro Gly Leu Gln Gly Phe Pro Gly Lys Pro Gly Phe Leu Gly
1 5 10 15

Glu Val Gly Pro Pro Gly Met Arg Gly Phe Pro Gly Pro
20 25

<210> 128

<211> 44

<212> PRT

<213> Homo sapiens

<400> 128

Pro Pro Gly Lys Pro Gly Ala Leu Gly Pro Gln Gly Gln Pro Gly Leu
1 5 10 15

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Ala Val Met
20 25 30

Pro Pro Thr Pro Pro Pro Gln Gly Glu Tyr Leu Pro
35 40

<210> 129

<211> 44

<212> PRT

<213> Homo sapiens

<400> 129

Met Pro Gly Ala Pro Gly Val Lys Gly Pro Pro Gly Met His Gly Pro
1 5 10 15

Pro Gly Pro Val Gly Leu Pro Gly Val Gly Lys Pro Gly Val Thr Gly
20 25 30

Phe Pro Gly Pro Gln Gly Pro Leu Gly Lys Pro Gly
35 40

<210> 130

<211> 44

<212> PRT

<213> Homo sapiens

<400> 130

Pro Gln Gly Pro Leu Gly Lys Pro Gly Ala Pro Gly Glu Pro Gly Pro
 1 5 10 15

Gln Gly Pro Ile Gly Val Pro Gly Val Gln Gly Pro Pro Gly Ile Pro
 20 25 30

Gly Ile Gly Lys Pro Gly Gln Asp Gly Ile Pro Gly
 35 40

<210> 131

<211> 29

<212> PRT

<213> Homo sapiens

<400> 131

Gly Pro Pro Gly Ile Pro Gly Ile Gly Gly Pro Ser Gly Pro Ile Gly
 1 5 10 15

Pro Pro Gly Ile Pro Gly Pro Lys Gly Glu Pro Gly Leu
 20 25

<210> 132

<211> 18

<212> PRT

<213> Homo sapiens

<400> 132

Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Ala Val Met Pro Pro Thr
 1 5 10 15

Pro Pro

<210> 133

<211> 27

<212> PRT

<213> Homo sapiens

<400> 133

Gly Glu Val Gly Pro Pro Gly Met Arg Gly Phe Pro Gly Pro Ile Gly
1 5 10 15

Pro Lys Gly Glu His Gly Gln Lys Gly Val Pro
20 25

<210> 134

<211> 27

<212> PRT

<213> Homo sapiens

<400> 134

Gly Glu His Gly Gln Lys Gly Val Pro Gly Leu Pro Gly Val Pro Gly
1 5 10 15

Leu Leu Gly Pro Lys Gly Glu Pro Gly Ile Pro
20 25

<210> 135

<211> 15

<212> PRT

<213> Homo sapiens

<400> 135

Gly Gly Pro Gly Leu Pro Gly Gln Pro Gly Pro Lys Gly Asp Arg Gly
 1 5 10 15

Pro Lys Gly Leu Pro Gly Pro Gln Gly Leu Arg Gly Pro
 20 25

<210> 139

<211> 27

<212> PRT

<213> Homo sapiens

<400> 139

Gly Met Pro Gly Ala Lys Gly Glu Ile Gly Gln Lys Gly Glu Ile Gly
 1 5 10 15

Pro Met Gly Ile Pro Gly Pro Gln Gly Pro Pro
 20 25

<210> 140

<211> 35

<212> PRT

<213> Homo sapiens

<400> 140

Pro Gly Ile Gly Lys Pro Gly Gly Pro Gly Leu Pro Gly Gln Pro Gly
 1 5 10 15

Pro Lys Gly Asp Arg Gly Pro Lys Gly Leu Pro Gly Pro Gln Gly Leu
 20 25 30

Arg Gly Pro
 35

<210> 141

<211> 27

<212> PRT

<213> Homo sapiens

<400> 141

Gly Lys Pro Gly Val Thr Gly Phe Pro Gly Pro Gln Gly Pro Leu Gly
1 5 10 15

Lys Pro Gly Ala Pro Gly Glu Pro Gly Pro Gln
20 25

<210> 142

<211> 29

<212> PRT

<213> Homo sapiens

<400> 142

Gly Pro Lys Gly Glu His Gly Gln Lys Gly Val Pro Gly Leu Pro Gly
1 5 10 15

Val Pro Gly Leu Leu Gly Pro Lys Gly Glu Pro Gly Ile
20 25

<210> 143

<211> 29

<212> PRT

<213> Homo sapiens

<400> 143

Gly Gln Pro Gly Phe Pro Gly Gly Lys Gly Glu Gln Gly Leu Pro Gly
1 5 10 15

Leu Pro Gly Pro Pro Gly Leu Pro Gly Ile Gly Lys Pro
20 25

<210> 144

Gly Pro Ile Gly Pro Pro Gly Ile Pro Gly Pro Lys Gly Glu Pro Gly
1 5 10 15

Leu Pro Gly Pro Pro Gly Phe Pro Gly Ile Gly Lys Pro
20 25

<210> 150

<211> 15

<212> PRT

<213> Homo sapiens

<400> 150

Pro Gly Pro Pro Gly Pro Pro Ala Val Met Pro Pro Thr Pro Pro
1 5 10 15

<210> 151

<211> 29

<212> PRT

<213> Homo sapiens

<400> 151

Gly Lys Pro Gly Val Thr Gly Phe Pro Gly Pro Gln Gly Pro Leu Gly
1 5 10 15

Lys Pro Gly Ala Pro Gly Glu Pro Gly Pro Gln Gly Pro
20 25

<210> 152

<211> 27

<212> PRT

<213> Homo sapiens

<400> 152

Gly Lys Pro Gly Ala Met Gly Met Pro Gly Ala Lys Gly Glu Ile Gly

1 5 10 15

Gln Lys Gly Glu Ile Gly Pro Met Gly Ile Pro
20 25

<210> 153

<211> 29

<212> PRT

<213> Homo sapiens

<400> 153

Gly Phe Leu Gly Glu Val Gly Pro Pro Gly Met Arg Gly Phe Pro Gly
1 5 10 15

Pro Ile Gly Pro Lys Gly Glu His Gly Gln Lys Gly Val
20 25

<210> 154

<211> 27

<212> PRT

<213> Homo sapiens

<400> 154

Ser Leu Arg Gly Glu Gln Gly Pro Arg Gly Glu Pro Gly Pro Arg Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Leu Pro Gly His Gly
20 25

<210> 155

<211> 27

<212> PRT

<213> Homo sapiens

Pro Pro Gly Leu Pro Gly His Gly Ile Pro Gly Ile Lys Gly Lys Pro
145 150 155 160

Gly Pro Gln Gly Tyr Pro Gly Val Gly Lys Pro Gly Met Pro Gly Met
165 170 175

Pro Gly Lys Pro Gly Ala Met Gly Met Pro Gly Ala Lys Gly Glu Ile
180 185 190

Gly Gln Lys Gly Glu Ile Gly Pro Met Gly Ile Pro Pro Gln Gly Pro
195 200 205

Pro Gly Pro His Gly Leu Pro Gly Ile Gly Lys Pro Gly Gly Pro Gly
210 215 220

Leu Pro Gly Gln Pro Gly Pro Lys Gly Asp Arg Gly Pro Lys Gly Leu
225 230 235 240

Pro Gly Pro Gln Gly Leu Arg Gly Pro Lys Gly Asp Lys Gly Phe Gly
245 250 255

Met Pro Gly Ala Pro Gly Val Lys Gly Pro Pro Gly Met His Gly Pro
260 265 270

Pro Gly Pro Val Gly Leu Pro Gly Val Gly Lys Pro Gly Val Thr Gly
275 280 285

Phe Pro Gly Pro Gln Gly Pro Leu Gly Lys Pro Gly Ala Pro Gly Glu
290 295 300

Pro Gly Pro Gln Gly Pro Ile Gly Val Pro Gly Val Gln Gly Pro Pro
305 310 315 320

Gly Ile Pro Gly Ile Gly Lys Pro Gly Gln Asp Gly Ile Pro Gly Gln
325 330 335

Pro Gly Phe Pro Gly Gly Lys Gly Glu Gln Gly Leu Pro Gly Leu Pro
340 345 350

Gly Pro Pro Gly Leu Pro Gly Ile Gly Lys Pro Gly Phe Pro Gly Pro
355 360 365

Lys Gly Asp Arg Gly Met Gly Gly Val Pro Gly Ala Leu Gly Pro Arg
 370 375 380

Gly Glu Lys Gly Pro Ile Gly Ala Pro Gly Ile Gly Gly Pro Pro Gly
 385 390 395 400

Glu Pro Gly Leu Pro Gly Ile Pro Gly Pro Met Gly Pro Pro Gly Ala
 405 410 415

Ile Gly Phe Pro Gly Pro Lys Gly Glu Gly Gly Ile Val Gly Pro Gln
 420 425 430

Gly Pro Pro Gly Pro Lys Gly Glu Pro Gly Leu Gln Gly Phe Pro Gly
 435 440 445

Lys Pro Gly Phe Leu Gly Glu Val Gly Pro Pro Gly Met Arg Gly Phe
 450 455 460

Pro Gly Pro Ile Gly Pro Lys Gly Glu His Gly Gln Lys Gly Val Pro
 465 470 475 480

Gly Leu Pro Gly Val Pro Gly Leu Leu Gly Pro Lys Gly Glu Pro Gly
 485 490 495

Ile Pro Gly Asp Gln Gly Leu Gln Gly Pro Pro Gly Ile Pro Gly Ile
 500 505 510

Gly Gly Pro Ser Gly Pro Ile Gly Pro Pro Gly Ile Pro Gly Pro Lys
 515 520 525

Gly Glu Pro Gly Leu Pro Gly Pro Pro Gly Phe Pro Gly Ile Gly Lys
 530 535 540

Pro Gly Val Ala Gly Leu His Gly Pro Pro Gly Lys Pro Gly Ala Leu
 545 550 555 560

Gly Pro Gln Gly Gln Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly
 565 570 575

Pro Pro Gly Pro Pro Ala Val Met Pro Pro Thr Pro Pro Pro Gln Gly
 580 585 590

Glu Tyr Leu Pro Asp Met Gly Leu Gly Ile Asp Gly Val Lys Pro Pro

10005493 "120304"
T0202T 654500T

595

600

605

His Ala Tyr Gly Ala Lys Lys Gly Lys Asn Gly Gly Pro Ala Tyr Glu
610 615 620

Met Pro Ala Phe Thr Ala Glu Leu Thr Ala Pro Phe Pro Pro Val Gly
625 630 635 640

Ala Pro Val Lys Phe Asn Lys Leu Leu Tyr Asn Gly Arg Gln Asn Tyr
645 650 655

Asn Pro Gln Thr Gly Ile Phe Thr Cys Glu Val Pro Gly Val Tyr Tyr
660 665 670

Phe Ala Tyr His Val His Cys Lys Gly Gly Asn Val Trp Val Ala Leu
675 680 685

Phe Lys Asn Asn Glu Pro Val Met Tyr Thr Tyr Asp Glu Tyr Lys Lys
690 695 700

Gly Phe Leu Asp Gln Ala Ser Gly Ser Ala Val Leu Leu Leu Arg Pro
705 710 715 720

Gly Asp Arg Val Phe Leu Gln Met Pro Ser Glu Gln Ala Ala Gly Leu
725 730 735

Tyr Ala Gly Gln Tyr Val His Ser Ser Phe Ser Gly Tyr Leu Leu Tyr
740 745 750

Pro Met

<210> 157

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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 aattatgaat aatcctcgct gccaaagga aggggatttt gagcaaaagc tccacatctg 180
 cgcacactag agttcaaaga ctccagctgt tggaaggctt tgtgagcaat gtttgagagg 240
 taagactgga ccgctagggtc ttgccggtga gaaaggggac caaggaaaga ctgggaagaa 300
 aggaccata tgaccatagg gagagaaagg agaagtaggt ccaattgggtc ctccctggacc 360
 caaggagagac agaggagaac aaggggaccc cgggctgcct ggggttttgc cgatgtggaa 420
 gcatcctggc tcaaatacgg etc 443

<210> 158

<211> 1397

<212> DNA

<213> Homo sapiens

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 aagccccata taattatgaa taatcctcgc tgccaaaggg aaggggattt tgagcaaaag 120
 ctccacatct gcgcacacta gagttcaaag actccagctg ttggaaggct ttgtgagcaa 180
 gagccaaaga tgtttgcctt gctctatgtt acaagttttg ccatttgcgc cagtggacaa 240
 ccccggggta atcagttgaa aggagagAAC tactccccca ggtatatctg cagcattcct 300
 ggcttgccctg gacctccagg gccccctgga gcaaattggtt ccctggggcc ccatgggtcgc 360
 atcggccttc caggaagaga tggtagagac ggcaggaaag gagagaaagg tgaaaaggga 420
 actgcagggtt tgagaggtaa gactggaccg ctaggtcttg ccggtgagaa aggggaccaa 480
 ggagagactg ggaagaaagg acccatagga ccagagggag agaaaggaga agtaggtcca 540
 attggctctc ctggacccaa gggagacaga ggagaacaag gggacccggg gctgcctgga 600
 gtttgcagat gtggaagcat cgtgctcaaa tccgcctttt ctgttggcat cacaaccagc 660

tac	tcc	ccc	agg	tat	atc	tgc	agc	att	cct	ggc	ttg	cct	gga	cct	cca	208
Tyr	Ser	Pro	Arg	Tyr	Ile	Cys	Ser	Ile	Pro	Gly	Leu	Pro	Gly	Pro	Pro	
		30					35					40				
ggg	ccc	cct	gga	gca	aat	ggg	tcc	cct	ggg	ccc	cat	ggg	cgc	atc	ggc	256
Gly	Pro	Pro	Gly	Ala	Asn	Gly	Ser	Pro	Gly	Pro	His	Gly	Arg	Ile	Gly	
	45					50					55					
ctt	cca	gga	aga	gat	ggg	aga	gac	ggc	agg	aaa	gga	gag	aaa	ggg	gaa	304
Leu	Pro	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Arg	Lys	Gly	Glu	Lys	Gly	Glu	
60					65					70					75	
aag	gga	act	gca	ggg	ttg	aga	ggg	aag	act	gga	ccg	cta	ggg	ctt	gcc	352
Lys	Gly	Thr	Ala	Gly	Leu	Arg	Gly	Lys	Thr	Gly	Pro	Leu	Gly	Leu	Ala	
			80						85					90		
ggg	gag	aaa	ggg	gac	caa	gga	gag	act	ggg	aag	aaa	gga	ccc	ata	gga	400
Gly	Glu	Lys	Gly	Asp	Gln	Gly	Glu	Thr	Gly	Lys	Lys	Gly	Pro	Ile	Gly	
			95					100					105			
cca	gag	gga	gag	aaa	gga	gaa	gta	ggg	cca	att	ggg	cct	cct	gga	cca	448
Pro	Glu	Gly	Glu	Lys	Gly	Glu	Val	Gly	Pro	Ile	Gly	Pro	Pro	Gly	Pro	
		110					115					120				
aag	gga	gac	aga	gga	gaa	caa	ggg	gac	ccg	ggg	ctg	cct	gga	gtt	tgc	496
Lys	Gly	Asp	Arg	Gly	Glu	Gln	Gly	Asp	Pro	Gly	Leu	Pro	Gly	Val	Cys	
	125					130					135					
aga	tgt	gga	agc	atc	gtg	ctc	aaa	tcc	gcc	ttt	tct	gtt	ggc	atc	aca	544
Arg	Cys	Gly	Ser	Ile	Val	Leu	Lys	Ser	Ala	Phe	Ser	Val	Gly	Ile	Thr	
140					145					150					155	
acc	agc	tac	cca	gaa	gaa	aga	cta	cct	att	ata	ttt	aac	aag	gtc	ctc	592
Thr	Ser	Tyr	Pro	Glu	Glu	Arg	Leu	Pro	Ile	Ile	Phe	Asn	Lys	Val	Leu	
				160					165					170		
ttc	aac	gag	gga	gag	cac	tac	aac	cct	gcc	aca	ggg	aag	ttc	atc	tgt	640
Phe	Asn	Glu	Gly	Glu	His	Tyr	Asn	Pro	Ala	Thr	Gly	Lys	Phe	Ile	Cys	
			175					180					185			
gct	ttc	cca	ggg	atc	tat	tac	ttt	tct	tat	gat	atc	aca	ttg	gct	aat	688
Ala	Phe	Pro	Gly	Ile	Tyr	Tyr	Phe	Ser	Tyr	Asp	Ile	Thr	Leu	Ala	Asn	
		190					195					200				
aag	cat	ctg	gca	atc	gga	ctg	gta	cac	aat	ggg	caa	tac	cgg	ata	aag	736
Lys	His	Leu	Ala	Ile	Gly	Leu	Val	His	Asn	Gly	Gln	Tyr	Arg	Ile	Lys	
	205					210					215					
acc	ttc	gac	gcc	aac	aca	gga	aac	cat	gat	gtg	gct	tcg	ggg	tcc	aca	784
Thr	Phe	Asp	Ala	Asn	Thr	Gly	Asn	His	Asp	Val	Ala	Ser	Gly	Ser	Thr	
220					225					230					235	
gtc	atc	tat	ctg	cag	cca	gaa	gat	gaa	gtc	tgg	ctg	gag	att	ttc	ttc	832
Val	Ile	Tyr	Leu	Gln	Pro	Glu	Asp	Glu	Val	Trp	Leu	Glu	Ile	Phe	Phe	
				240					245					250		

1005449-1005450

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aca gac cag aat ggc ctc ttc tca gac cca ggt tgg gca gac agc tta      880
Thr Asp Gln Asn Gly Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu
      255                      260                      265

ttc tcc ggg ttt ctc tta tac gtt gac aca gat tac cta gat tcc ata      928
Phe Ser Gly Phe Leu Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile
      270                      275                      280

tca gaa gat gat gaa ttg tga tcaggaccaa gatccctgtg gtaaactct      979
Ser Glu Asp Asp Glu Leu
      285

tgattgaatc tgggggttcca gaaggtggaa caagcaggaa tgggatccaa agagactccc 1039
actcagattc taaagcattt aaagacaatt ctagcagaat ttatcaaaac aagatgaaac 1099
acagaaaagt tgaaaccaca acaaaatgaa ttctattaaa gaatagcccc agatataaat 1159
tctcttgaaa gcaatgttca taaatattta agcaaattaa agacaatggt aacaaatttt 1219
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<210> 160
<211> 289
<212> PRT
<213> Homo sapiens

<400> 160
Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
1          5          10          15

Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr
      20          25          30

Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala
      35          40          45

Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
      50          55          60

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
65          70          75          80

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Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
85 90 95

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
100 105 110

Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly
115 120 125

Glu Gln Gly Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile
130 135 140

Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu
145 150 155 160

Glu Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Phe Asn Glu Gly Glu
165 170 175

His Tyr Asn Pro Ala Thr Gly Lys Phe Ile Cys Ala Phe Pro Gly Ile
180 185 190

Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala Ile
195 200 205

Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala Asn
210 215 220

Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu Gln
225 230 235 240

Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn Gly
245 250 255

Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe Leu
260 265 270

Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp Glu
275 280 285

Leu

<210> 161

<211> 870

<212> DNA

<213> Homo sapiens

<400> 161

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ggacctccag ggccccctgg agcaaagtgt tcccctgggc cccatggctg catcggcctt      180
ccaggaagag atggttagaga cggcaggaaa ggagagaaaag gtgaaaaggg aactgcaggt      240
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cctggaccaa agggagacag aggagaacaa ggggaccctg ggctgcctgg agtttgcaga      420
tgtggaagca tcgtgctcaa atccgccttt tctgttggca tcacaaccag ctaccagaa      480
gaaagactac ctattatatt taacaaggtc ctcttcaacg agggagagca ctacaacct      540
gccacaggga agttcatctg tgctttccca gggatctatt acttttctta tgatatcaca      600
ttggctaata agcatctggc aatcggactg gtacacaatg ggcaataccg gataaagacc      660
ttcgacgcca acacaggaaa ccatgatgtg gcttcggggg ccacagtcac ctatctgcag      720
ccagaagatg aagtctggct ggagattttc ttcacagacc agaatggcct cttctcagac      780
ccaggttggg cagacagctt attctccggg tttctcttat acgttgacac agattaccta      840
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<210> 162

<211> 16

<212> PRT

<213> Homo sapiens

<400> 162

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Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
1           5           10          15

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<210> 163
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400> 163

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Ile	Cys	Ser	Ile	Pro	Gly	Leu	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Ala	20	25	30	
Asn	Gly	Ser	Pro	Gly	Pro	His	Gly	Arg	Ile	Gly	Leu	Pro	Gly	Arg	Asp	35	40	45	
Gly	Arg	Asp	Gly	Arg	Lys	Gly	Glu	Lys	Gly	Glu	Lys	Gly	Thr	Ala	Gly	50	55	60	
Leu	Arg	Gly	Lys	Thr	Gly	Pro	Leu	Gly	Leu	Ala	Gly	Glu	Lys	Gly	Asp	65	70	75	80
Gln	Gly	Glu	Thr	Gly	Lys	Lys	Gly	Pro	Ile	Gly	Pro	Glu	Gly	Glu	Lys	85	90	95	
Gly	Glu	Val	Gly	Pro	Ile	Gly	Pro	Pro	Gly	Pro	Lys	Gly	Asp	Arg	Gly	100	105	110	
Glu	Gln	Gly	Asp	Pro	Gly	Leu	Pro	Gly	Val	Cys	Arg	Cys	Gly	Ser	Ile	115	120	125	
Val	Leu	Lys	Ser	Ala	Phe	Ser	Val	Gly	Ile	Thr	Thr	Ser	Tyr	Pro	Glu	130	135	140	
Glu	Arg	Leu	Pro	Ile	Ile	Phe	Asn	Lys	Val	Leu	Phe	Asn	Glu	Gly	Glu	145	150	155	160
His	Tyr	Asn	Pro	Ala	Thr	Gly	Lys	Phe	Ile	Cys	Ala	Phe	Pro	Gly	Ile	165	170	175	
Tyr	Tyr	Phe	Ser	Tyr	Asp	Ile	Thr	Leu	Ala	Asn	Lys	His	Leu	Ala	Ile				

180

185

190

Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala Asn
195 200 205

Thr Gly Asn His Asp Val Ala Ser Gly Ser Thr Val Ile Tyr Leu Gln
210 215 220

Pro Glu Asp Glu Val Trp Leu Glu Ile Phe Phe Thr Asp Gln Asn Gly
225 230 235 240

Leu Phe Ser Asp Pro Gly Trp Ala Asp Ser Leu Phe Ser Gly Phe Leu
245 250 255

Leu Tyr Val Asp Thr Asp Tyr Leu Asp Ser Ile Ser Glu Asp Asp Glu
260 265 270

Leu

<210> 164

<211> 36

<212> PRT

<213> Homo sapiens

<400> 164

Pro Ile Ile Phe Asn Lys Val Leu Phe Asn Glu Gly Glu His Tyr Asn
1 5 10 15

Pro Ala Thr Gly Lys Phe Ile Cys Ala Phe Pro Gly Ile Tyr Tyr Phe
20 25 30

Ser Tyr Asp Ile
35

<210> 165

<211> 27

<212> PRT

<212> PRT

<213> Homo sapiens

<400> 168

Phe Ile Cys Ala Phe Pro Gly Ile Tyr Tyr Phe Ser Tyr Asp Ile Thr
1 5 10 15

Leu Ala Asn Lys
20

<210> 169

<211> 27

<212> PRT

<213> Homo sapiens

<400> 169

Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp Gly
1 5 10 15

Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys
20 25

<210> 170

<211> 27

<212> PRT

<213> Homo sapiens

<400> 170

Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala Asn Gly
1 5 10 15

Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro
20 25

<210> 171

<211> 27

<212> PRT

<213> Homo sapiens

<400> 171

Gly Pro Pro Gly Pro Pro Gly Ala Asn Gly Ser Pro Gly Pro His Gly
1 5 10 15

Arg Ile Gly Leu Pro Gly Arg Asp Gly Arg Asp
20 25

<210> 172

<211> 29

<212> PRT

<213> Homo sapiens

<400> 172

Gly Pro Pro Gly Ala Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly
1 5 10 15

Leu Pro Gly Arg Asp Gly Arg Asp Gly Arg Lys Gly Glu
20 25

<210> 173

<211> 29

<212> PRT

<213> Homo sapiens

<400> 173

Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp Gln Gly Glu Thr Gly
1 5 10 15

Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys Gly Glu

20

25

<210> 174

<211> 27

<212> PRT

<213> Homo sapiens

<400> 174

Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala Asn Gly Ser Pro Gly
 1 5 10 15

Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
 20 25

<210> 175

<211> 29

<212> PRT

<213> Homo sapiens

<400> 175

Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys Gly Glu Val Gly
 1 5 10 15

Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly Glu
 20 25

<210> 176

<211> 11

<212> PRT

<213> Homo sapiens

<400> 176

Ala Asp Ser Leu Phe Ser Gly Phe Leu Leu Tyr
 1 5 10

<210> 177

<211> 27

<212> PRT

<213> Homo sapiens

<400> 177

Gly Pro Pro Gly Ala Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly
1 5 10 15

Leu Pro Gly Arg Asp Gly Arg Asp Gly Arg Lys
20 25

<210> 178

<211> 29

<212> PRT

<213> Homo sapiens

<400> 178

Gly Ala Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly
1 5 10 15

Arg Asp Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu
20 25

<210> 179

<211> 27

<212> PRT

<213> Homo sapiens

<400> 179

Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly
1 5 10 15

Glu Lys Gly Thr Ala Gly Leu Arg Gly Lys Thr
 20 25

<210> 180

<211> 27

<212> PRT

<213> Homo sapiens

<400> 180

Gly Glu Lys Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly
 1 5 10 15

Asp Arg Gly Glu Gln Gly Asp Pro Gly Leu Pro
 20 25

<210> 181

<211> 29

<212> PRT

<213> Homo sapiens

<400> 181

Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp Gly
 1 5 10 15

Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr
 20 25

<210> 182

<211> 305

<212> PRT

<213> Homo sapiens

<400> 182

Ser Ser Lys Thr Pro Ala Val Gly Arg Ser Cys Glu Gln Glu Pro Lys
1 5 10 15

Met Phe Val Leu Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly
20 25 30

Gln Pro Arg Gly Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr
35 40 45

Ile Cys Ser Ile Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala
50 55 60

Asn Gly Ser Pro Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp
65 70 75 80

Gly Arg Asp Gly Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly
85 90 95

Leu Arg Gly Lys Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp
100 105 110

Gln Gly Glu Thr Gly Lys Lys Gly Pro Ile Gly Pro Glu Gly Glu Lys
115 120 125

Gly Glu Val Gly Pro Ile Gly Pro Pro Gly Pro Lys Gly Asp Arg Gly
130 135 140

Glu Gln Gly Asp Pro Gly Leu Pro Gly Val Cys Arg Cys Gly Ser Ile
145 150 155 160

Val Leu Lys Ser Ala Phe Ser Val Gly Ile Thr Thr Ser Tyr Pro Glu
165 170 175

Glu Arg Leu Pro Ile Ile Phe Asn Lys Val Leu Phe Asn Glu Gly Glu
180 185 190

His Tyr Asn Pro Ala Thr Gly Lys Phe Ile Cys Ala Phe Pro Gly Ile
195 200 205

Tyr Tyr Phe Ser Tyr Asp Ile Thr Leu Ala Asn Lys His Leu Ala Ile
210 215 220

Gly Leu Val His Asn Gly Gln Tyr Arg Ile Lys Thr Phe Asp Ala Asn

atc tgc aca ggg aac ata aac tca cag gac acc tgc agg caa ggg cac	98
Ile Cys Thr Gly Asn Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His	
15 20 25	
cct ggc atc cct ggg aac ccc ggt cac aat ggt ctg cct gga aga gat	146
Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp	
30 35 40	
gga cga gac gga gcg aag ggt gac aaa ggc gat gca gga gaa cca gga	194
Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly	
45 50 55	
cgt cct ggc agc ccg ggg aag gat ggg acg agt gga gag aag gga gaa	242
Arg Pro Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu	
60 65 70 75	
cga gga gca gat gga aaa gtt gaa gca aaa ggc atc aaa ggt gat caa	290
Arg Gly Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln	
80 85 90	
ggc tca aga gga tcc cca gga aaa cat ggc ccc aag ggg ctt gca ggg	338
Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly	
95 100 105	
ccc atg gga gag aag ggc ctc cga gga gag act ggg cct cag ggg cag	386
Pro Met Gly Glu Lys Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln	
110 115 120	
aag ggg aat aag ggt gac gtg ggt ccc act ggt cct gag ggg cca agg	434
Lys Gly Asn Lys Gly Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg	
125 130 135	
ggc aac att ggg cct ttg ggc cca act ggt tta ccg ggc ccc atg ggc	482
Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly	
140 145 150 155	
cct att gga aag cct ggt ccc aaa gga gaa gct gga ccc acg ggg ccc	530
Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro	
160 165 170	
cag gat atg ccc att aaa ttt gat aag atc ctg tat aac gaa ttc aac	578
Gln Asp Met Pro Ile Lys Phe Asp Lys Ile Leu Tyr Asn Glu Phe Asn	
175 180 185	
cat tat gat aca gca gcg ggg aaa ttc acg tgc cac att gct ggg gtc	626
His Tyr Asp Thr Ala Ala Gly Lys Phe Thr Cys His Ile Ala Gly Val	
190 195 200	
tat tac ttc acc tac cac atc act gtt ttc tcc agg aat gtt cag gtg	674
Tyr Tyr Phe Thr Tyr His Ile Thr Val Phe Ser Arg Asn Val Gln Val	
205 210 215	
tct ttg gtc aaa aat gga gta aaa ata ctg cac acc aaa gat gct tac	722
Ser Leu Val Lys Asn Gly Val Lys Ile Leu His Thr Lys Asp Ala Tyr	
220 225 230 235	
atg agc tct gag gac cag gcc tct ggc ggc att gtc ctg cag ctg aag	770

Met Ser Ser Glu Asp Gln Ala Ser Gly Gly Ile Val Leu Gln Leu Lys
 240 245 250

ctc ggg gat gag gtg tgg ctg cag gtg aca gga gga gag agg ttc aat 818
 Leu Gly Asp Glu Val Trp Leu Gln Val Thr Gly Gly Glu Arg Phe Asn
 255 260 265

ggc ttg ttt gct gat gag gac gat gac aca act ttc aca ggg ttc ctt 866
 Gly Leu Phe Ala Asp Glu Asp Asp Thr Thr Phe Thr Gly Phe Leu
 270 275 280

ctg ttc agc agc ccg tga cagaggagag tttaaaaatc cgccacacca 914
 Leu Phe Ser Ser Pro
 285

tccatcagaa tcagcttggg atgaacttat tcagatg 951

<210> 186
 <211> 288
 <212> PRT
 <213> Homo sapiens

<400> 186

Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly Asn
 1 5 10 15

Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly
 20 25 30

Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala
 35 40 45

Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro
 50 55 60

Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly
 65 70 75 80

Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser
 85 90 95

Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys
 100 105 110

Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly
115 120 125

Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro
130 135 140

Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro
145 150 155 160

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Asp Met Pro Ile
165 170 175

Lys Phe Asp Lys Ile Leu Tyr Asn Glu Phe Asn His Tyr Asp Thr Ala
180 185 190

Ala Gly Lys Phe Thr Cys His Ile Ala Gly Val Tyr Tyr Phe Thr Tyr
195 200 205

His Ile Thr Val Phe Ser Arg Asn Val Gln Val Ser Leu Val Lys Asn
210 215 220

Gly Val Lys Ile Leu His Thr Lys Asp Ala Tyr Met Ser Ser Glu Asp
225 230 235 240

Gln Ala Ser Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu Val
245 250 255

Trp Leu Gln Val Thr Gly Gly Glu Arg Phe Asn Gly Leu Phe Ala Asp
260 265 270

Glu Asp Asp Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser Ser Pro
275 280 285

<210> 187

<211> 867

<212> DNA

<213> Homo sapiens

<400> 187

atgaggatct ggtggcttct gcttgccatt gaaatctgca cagggaacat aaactcacag

60

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 ggaagagatg gacgagacgg agcgaagggg gacaaaggcg atgcaggaga accaggacgt 180
 cctggcagcc cggggaagga tgggacgagt ggagagaagg gagaacgagg agcagatgga 240
 aaagttgaag caaaaggcat caaaggatgat caagggtcaa gaggatcccc aggaaaacat 300
 ggccccaagg ggcttgcagg gcccatggga gagaagggcc tccgaggaga gactgggcct 360
 caggggcaga aggggaataa ggggtgacgtg ggtcccactg gtcctgaggg gccaaagggc 420
 aacattgggc ctttgggccc aactggttta ccgggccccca tgggccctat tggaaagcct 480
 ggtcccaaag gagaagctgg acccacgggg ccccaggata tgcccattaa atttgataag 540
 atcctgtata acgaattcaa ccattatgat acagcagcgg ggaaattcac gtgccacatt 600
 gctgggggtct attacttcac ctaccacatc actgttttct ccaggaatgt tcaggtgtct 660
 ttggtcaaaa atggagtaaa aatactgcac accaaagatg cttacatgag ctctgaggac 720
 caggcctctg gcggcattgt cctgcagctg aagctcgggg atgaggtgtg gctgcagggtg 780
 acaggaggag agaggttcaa tggcttggtt gctgatgagg acgatgacac aactttcaca 840
 gggttccttc tgttcagcag ccggtga 867

<210> 188

<211> 19

<212> PRT

<213> Homo sapiens

<400> 188

Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly Asn
 1 5 10 15

Ile Asn Ser

<210> 189

<211> 269

<212> PRT

<213> Homo sapiens

Ile Leu His Thr Lys Asp Ala Tyr Met Ser Ser Glu Asp Gln Ala Ser
210 215 220

Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu Val Trp Leu Gln
225 230 235 240

Val Thr Gly Gly Glu Arg Phe Asn Gly Leu Phe Ala Asp Glu Asp Asp
245 250 255

Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser Ser Pro
260 265

<210> 190

<211> 36

<212> PRT

<213> Homo sapiens

<400> 190

Pro Ile Lys Phe Asp Lys Ile Leu Tyr Asn Glu Phe Asn His Tyr Asp
1 5 10 15

Thr Ala Ala Gly Lys Phe Thr Cys His Ile Ala Gly Val Tyr Tyr Phe
20 25 30

Thr Tyr His Ile
35

<210> 191

<211> 22

<212> PRT

<213> Homo sapiens

<400> 191

Asp Gln Ala Ser Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu
1 5 10 15

Val Trp Leu Gln Val Thr

20

<210> 192

<211> 20

<212> PRT

<213> Homo sapiens

<400> 192

Asp Gln Ala Ser Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu
1 5 10 15

Val Trp Leu Gln
20

<210> 193

<211> 20

<212> PRT

<213> Homo sapiens

<400> 193

Phe Thr Cys His Ile Ala Gly Val Tyr Tyr Phe Thr Tyr His Ile Thr
1 5 10 15

Val Phe Ser Arg
20

<210> 194

<211> 27

<212> PRT

<213> Homo sapiens

<400> 194

Thr Gly Pro Gln Asp Met Pro Ile Lys Phe Asp Lys Ile Leu Tyr Asn
1 5 10 15

Glu Phe Asn His Tyr Asp Thr Ala Ala Gly Lys
20 25

<210> 195

<211> 27

<212> PRT

<213> Homo sapiens

<400> 195

Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly
1 5 10 15

Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala
20 25

<210> 196

<211> 27

<212> PRT

<213> Homo sapiens

<400> 196

Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly
1 5 10 15

Glu Ala Gly Pro Thr Gly Pro Gln Asp Met Pro
20 25

<210> 197

<211> 29

<212> PRT

<213> Homo sapiens

<400> 197

protein "6545000"

Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly
1 5 10 15

Arg Pro Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu
20 25

<210> 198
<211> 29
<212> PRT
<213> Homo sapiens

<400> 198
Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly
1 5 10 15

Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu
20 25

<210> 199
<211> 29
<212> PRT
<213> Homo sapiens

<400> 199
Gly Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly
1 5 10 15

Leu Ala Gly Pro Met Gly Glu Lys Gly Leu Arg Gly Glu
20 25

<210> 200
<211> 27
<212> PRT
<213> Homo sapiens

[illegible]

Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly
1 5 10 15

Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys
20 25

<210> 201

<211> 27

<212> PRT

<213> Homo sapiens

<400> 201

Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly
1 5 10 15

Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro
20 25

<210> 202

<211> 27

<212> PRT

<213> Homo sapiens

<400> 202

Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
1 5 10 15

Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro
20 25

<210> 203

<211> 29

<212> PRT

[illegible]

Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly
1 5 10 15

<210> 204

<212> PRT

<400> 204

Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg
20 25

<211> 29

<212> PRT

<400> 205

Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

<210> 206

<211> 29

<212> PRT

<213> Homo sapiens

<400> 206

Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro Gly
1 5 10 15

Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala
20 25

<210> 207

<211> 29

<212> PRT

<213> Homo sapiens

<400> 207

Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly
1 5 10 15

Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro
20 25

<210> 208

<211> 11

<212> PRT

<213> Homo sapiens

<400> 208

Asp Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe
1 5 10

<210> 209

<211> 10

<212> PRT

<213> Homo sapiens

<400> 209

Thr	Thr	Phe	Thr	Gly	Phe	Leu	Leu	Phe	Ser
1				5					10

<210> 210

<211> 27

<212> PRT

<213> Homo sapiens

<400> 210

Gly	Ala	Lys	Gly	Asp	Lys	Gly	Asp	Ala	Gly	Glu	Pro	Gly	Arg	Pro	Gly
1				5					10					15	

Ser	Pro	Gly	Lys	Asp	Gly	Thr	Ser	Gly	Glu	Lys
			20					25		

<210> 211

<211> 27

<212> PRT

<213> Homo sapiens

<400> 211

Gly	Ser	Pro	Gly	Lys	Asp	Gly	Thr	Ser	Gly	Glu	Lys	Gly	Glu	Arg	Gly
1				5					10					15	

Ala	Asp	Gly	Lys	Val	Glu	Ala	Lys	Gly	Ile	Lys
			20					25		

<210> 212

<211> 27

<212> PRT

<213> Homo sapiens

<400> 212

Cys Arg Gln Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly
1 5 10 15

Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys
20 25

<210> 213

<211> 29

<212> PRT

<213> Homo sapiens

<400> 213

Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly Leu Pro Gly
1 5 10 15

Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu
20 25

<210> 214

<211> 1176

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(1176)

<223> n = A, T, G, or C

<220>

<221> CDS

<222> (18)..(920)

<223>

<400> 214

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Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu
1 5 10

atc tgc aca ggg aac ata aac tca cag gac acc tgc agg caa ggg cac 98
Ile Cys Thr Gly Asn Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His
15 20 25

cct ggc atc cct ggg aac ccc ggt cac aat ggt ctg cct gga aga gat 146
Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp
30 35 40

gga cga gac gga gcg aag ggt gac aaa ggc gat gca gga gaa cca gga 194
Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly
45 50 55

cgt cct ggc agc ccg ggg aag gat ggg acg agt gga gag aag gga gaa 242
Arg Pro Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu
60 65 70 75

cga gga gca gat gga aaa gtt gaa gca aaa ggc atc aaa ggt gat caa 290
Arg Gly Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln
80 85 90

ggc tca aga gga tcc cca gga aaa cat ggc ccc aag ggg ctt gca ggg 338
Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly
95 100 105

ccc atg gga gag aag ggc ctc cga gga gag act ggg cct cag ggg cag 386
Pro Met Gly Glu Lys Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln
110 115 120

aag ggg aat aag ggt gac gtg ggt ccc act ggt cct gag ggg cca agg 434
Lys Gly Asn Lys Gly Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg
125 130 135

ggc aac att ggg cct ttg ggc cca act ggt tta ccg ggc ccc atg ggc 482
Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly
140 145 150 155

cct att gga aag cct ggt ccc aag gga gaa gct gga ccc acg ggg ccc 530
Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro
160 165 170

cag ggt gag cca gga gtc cgg gga ata aga ggc tgg aaa gga gat cga 578
Gln Gly Glu Pro Gly Val Arg Gly Ile Arg Gly Trp Lys Gly Asp Arg
175 180 185

gga gag aaa ggg aaa atc ggt gag act cta gtc ttg cca aaa agt gct	626
Gly Glu Lys Gly Lys Ile Gly Glu Thr Leu Val Leu Pro Lys Ser Ala	
190 195 200	
ttc act gtg ggg ctc acg gtg ctg agc aag ttt cct tct tca gat gtg	674
Phe Thr Val Gly Leu Thr Val Leu Ser Lys Phe Pro Ser Ser Asp Val	
205 210 215	
ccc att aaa ttt gat aag atc cac atc act gtt ttc tcc agg aat gtt	722
Pro Ile Lys Phe Asp Lys Ile His Ile Thr Val Phe Ser Arg Asn Val	
220 225 230 235	
cag gtg tct ttg gtc aaa aac gga gta aaa ata ctg cac acc aga gat	770
Gln Val Ser Leu Val Lys Asn Gly Val Lys Ile Leu His Thr Arg Asp	
240 245 250	
gct tac gtg agc tct gag gac cag gcc tct ggc agc att gtc ctg cag	818
Ala Tyr Val Ser Ser Glu Asp Gln Ala Ser Gly Ser Ile Val Leu Gln	
255 260 265	
ctg aag ctc ggg gat gag atg tgg tgt gtg att cat cgt gtg gca aaa	866
Leu Lys Leu Gly Asp Glu Met Trp Cys Val Ile His Arg Val Ala Lys	
270 275 280	
tgt ctc tcc atc tgt gat cct ttt aca gtg gcg tct tgt gtg cgc tct	914
Cys Leu Ser Ile Cys Asp Pro Phe Thr Val Ala Ser Cys Val Arg Ser	
285 290 295	
cga tga gggcaaggtc acctctgctt tgaggggccc gggttagtggt tctcctaccc	970
Arg	
300	
agagtgtcgg gtccgggaac tgcttctgca tgagcccctt gctccacgtg aatctgaata	1030
gttcgttctg gcagtggcgg tgaattcgct ctgccaggac ccgccctctg catacactca	1090
ggcgcacccc tgctaaagcc ctttaacttc agcgtacaaa gtccttgctt aanaagccta	1150
tcccttgngc gntcacaggc cggatt	1176

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<211> 300

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) .. (1176)

<223> n = A, T, G, or C

<400> 215

Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly Asn
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Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly
20 25 30

Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala
35 40 45

Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro
50 55 60

Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly
65 70 75 80

Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser
85 90 95

Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys
100 105 110

Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly
115 120 125

Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro
130 135 140

Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro
145 150 155 160

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly
165 170 175

Val Arg Gly Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys
180 185 190

Ile Gly Glu Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu
195 200 205

attaaatttg ataagatcca catcactggt ttctccagga atgttcaggt gtctttggtc 720
 aaaaacggag taaaaatact gcacaccaga gatgcttacg tgagctctga ggaccaggcc 780
 tctggcagca ttgtcctgca gctgaagctc ggggatgaga tgtggtgtgt gattcatcgt 840
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<210> 217

<211> 281

<212> PRT

<213> Homo sapiens

<400> 217

Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly Asn Pro Gly
 1 5 10 15

His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp
 20 25 30

Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro Gly Lys Asp
 35 40 45

Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly Lys Val Glu
 50 55 60

Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys
 65 70 75 80

His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys Gly Leu Arg
 85 90 95

Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly Asp Val Gly
 100 105 110

Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro
 115 120 125

Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys
 130 135 140

Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly Val Arg Gly
145 150 155 160

Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys Ile Gly Glu
165 170 175

Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu Thr Val Leu
180 185 190

Ser Lys Phe Pro Ser Ser Asp Val Pro Ile Lys Phe Asp Lys Ile His
195 200 205

Ile Thr Val Phe Ser Arg Asn Val Gln Val Ser Leu Val Lys Asn Gly
210 215 220

Val Lys Ile Leu His Thr Arg Asp Ala Tyr Val Ser Ser Glu Asp Gln
225 230 235 240

Ala Ser Gly Ser Ile Val Leu Gln Leu Lys Leu Gly Asp Glu Met Trp
245 250 255

Cys Val Ile His Arg Val Ala Lys Cys Leu Ser Ile Cys Asp Pro Phe
260 265 270

Thr Val Ala Ser Cys Val Arg Ser Arg
275 280

<210> 218

<211> 27

<212> PRT

<213> Homo sapiens

<400> 218

Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly
1 5 10 15

Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro
20 25

Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu
20 25

<210> 222

<211> 29

<212> PRT

<213> Homo sapiens

<400> 222

Gly Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly
1 5 10 15

Leu Ala Gly Pro Met Gly Glu Lys Gly Leu Arg Gly Glu
20 25

<210> 223

<211> 27

<212> PRT

<213> Homo sapiens

<400> 223

Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly
1 5 10 15

Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys
20 25

<210> 224

<211> 27

<212> PRT

<213> Homo sapiens

<400> 224

Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																																																																																																																																																																
Population (millions)	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	31.0	31.1	31.2	31.3	31.4

Glu Pro Gly Val Arg Gly Ile Arg Gly Trp Lys
20 25

<211> 27

<213> Homo sapiens

Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro Gly
1 5 10 15

<210> 229

<211> 29

<212> PRT

<213> Homo sapiens

Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu
20 25

<211> 29

<212> PRT

<213> Homo sapiens

<400> 230

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly
1 5 10 15

Val Arg Gly Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu
20 25

<210> 231

<211> 20

<212> PRT

<213> Homo sapiens

<400> 231

Asp Gln Ala Ser Gly Ser Ile Val Leu Gln Leu Lys Leu Gly Asp Glu
1 5 10 15

Met Trp Cys Val
20

<210> 232

<211> 27

<212> PRT

<213> Homo sapiens

<400> 232

Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly
1 5 10 15

Pro Gln Gly Glu Pro Gly Val Arg Gly Ile Arg
20 25

<210> 233

<211> 22

<212> PRT

<213> Homo sapiens

<400> 233

Asp Gln Ala Ser Gly Ser Ile Val Leu Gln Leu Lys Leu Gly Asp Glu
1 5 10 15

Met Trp Cys Val Ile His
20

<210> 234

<211> 29

<212> PRT

<213> Homo sapiens

<400> 234

Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro Gly
1 5 10 15

Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala
20 25

<210> 235

<211> 29

<212> PRT

<213> Homo sapiens

<400> 235

Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly
1 5 10 15

Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro
20 25

<210> 236

10005493 236

<211> 27

<212> PRT

<213> Homo sapiens

<400> 236

Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys
20 25

<210> 237

<211> 27

<212> PRT

<213> Homo sapiens

<400> 237

Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly
1 5 10 15

Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys
20 25

<210> 238

<211> 27

<212> PRT

<213> Homo sapiens

<400> 238

Cys Arg Gln Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly
1 5 10 15

Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys
20 25

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gga gaa cga gga gca gat gga aaa gtt gaa gca aaa ggc atc aaa ggt Gly Glu Arg Gly Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys Gly 75 80 85			291
gat caa ggc tca aga gga tcc cca gga aaa cat ggc ccc aag ggg ctt Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly Leu 90 95 100 105			339
gca ggg ccc atg gga gag aag ggc ctc cga gga gag act ggg cct cag Ala Gly Pro Met Gly Glu Lys Gly Leu Arg Gly Glu Thr Gly Pro Gln 110 115 120			387
ggg cag aag ggg aat aag ggt gac gtg ggt ccc act ggt cct gag ggg Gly Gln Lys Gly Asn Lys Gly Asp Val Gly Pro Thr Gly Pro Glu Gly 125 130 135			435
cca agg ggc aac att ggg cct ttg ggc cca act ggt tta ccg ggc ccc Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly Leu Pro Gly Pro 140 145 150			483
atg ggc cct att gga aag cct ggt ccc aaa gga gaa gct gga ccc acg Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr 155 160 165			531
ggg ccc cag ggt gag cca gga gtc cag gga ata aga ggc tgg aaa gga Gly Pro Gln Gly Glu Pro Gly Val Gln Gly Ile Arg Gly Trp Lys Gly 170 175 180 185			579
gat cga gga gag aaa ggg aaa atc ggt gag act cta gtc ttg cca aaa Asp Arg Gly Glu Lys Gly Lys Ile Gly Glu Thr Leu Val Leu Pro Lys 190 195 200			627
agt gct ttc act gtg ggg ctc acg gtg ctg agc aag ttt cct tct tca Ser Ala Phe Thr Val Gly Leu Thr Val Leu Ser Lys Phe Pro Ser Ser 205 210 215			675
gat agg ccc att aaa ttt gat aag atc ctg tat aac gaa ttc aac cat Asp Arg Pro Ile Lys Phe Asp Lys Ile Leu Tyr Asn Glu Phe Asn His 220 225 230			723
tat gat aca gca gcg ggg aaa ttc acg tgc cac att gct ggg gtc tat Tyr Asp Thr Ala Ala Gly Lys Phe Thr Cys His Ile Ala Gly Val Tyr 235 240 245			771
tac ttc acc tac cac atc act gtt ttc tcc aga aat gtt cag gtg tct Tyr Phe Thr Tyr His Ile Thr Val Phe Ser Arg Asn Val Gln Val Ser 250 255 260 265			819
ttg gtc aaa aat gga gta aaa ata ctg cac acc aaa gat gct tac atg Leu Val Lys Asn Gly Val Lys Ile Leu His Thr Lys Asp Ala Tyr Met 270 275 280			867

agc tct gag gac cag gcc tct ggc ggc att gtc ctg cag ctg aag ctc	915
Ser Ser Glu Asp Gln Ala Ser Gly Gly Ile Val Leu Gln Leu Lys Leu	
285 290 295	
ggg gat gag gtg tgg ctg cag gtg aca gga gga gag agg ttc aat ggc	963
Gly Asp Glu Val Trp Leu Gln Val Thr Gly Gly Glu Arg Phe Asn Gly	
300 305 310	
ttg ttt gct gat gag gac gat gac aca act ttc aca ggg ttc ctt ctg	1011
Leu Phe Ala Asp Glu Asp Asp Asp Thr Thr Phe Thr Gly Phe Leu Leu	
315 320 325	
ttc agc agc ccg tga	1026
Phe Ser Ser Pro	
330	
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<211> 333	
<212> PRT	
<213> Homo sapiens	
<400> 241	
Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly Asn	
1 5 10 15	
Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly	
20 25 30	
Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala	
35 40 45	
Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro	
50 55 60	
Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly	
65 70 75 80	
Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser	
85 90 95	
Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys	
100 105 110	

Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly
115 120 125

Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro
130 135 140

Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro
145 150 155 160

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly
165 170 175

Val Gln Gly Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys
180 185 190

Ile Gly Glu Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu
195 200 205

Thr Val Leu Ser Lys Phe Pro Ser Ser Asp Arg Pro Ile Lys Phe Asp
210 215 220

Lys Ile Leu Tyr Asn Glu Phe Asn His Tyr Asp Thr Ala Ala Gly Lys
225 230 235 240

Phe Thr Cys His Ile Ala Gly Val Tyr Tyr Phe Thr Tyr His Ile Thr
245 250 255

Val Phe Ser Arg Asn Val Gln Val Ser Leu Val Lys Asn Gly Val Lys
260 265 270

Ile Leu His Thr Lys Asp Ala Tyr Met Ser Ser Glu Asp Gln Ala Ser
275 280 285

Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu Val Trp Leu Gln
290 295 300

Val Thr Gly Gly Glu Arg Phe Asn Gly Leu Phe Ala Asp Glu Asp Asp
305 310 315 320

Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser Ser Pro
325 330

Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly Asn Pro Gly
1 5 10 15

His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp
20 25 30

Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro Gly Lys Asp
35 40 45

Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly Lys Val Glu
50 55 60

Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys
65 70 75 80

His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys Gly Leu Arg
85 90 95

Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly Asp Val Gly
100 105 110

Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro
115 120 125

Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys
130 135 140

Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly Val Gln Gly
145 150 155 160

Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys Ile Gly Glu
165 170 175

Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu Thr Val Leu
180 185 190

Ser Lys Phe Pro Ser Ser Asp Arg Pro Ile Lys Phe Asp Lys Ile Leu
195 200 205

Tyr Asn Glu Phe Asn His Tyr Asp Thr Ala Ala Gly Lys Phe Thr Cys
210 215 220

His Ile Ala Gly Val Tyr Tyr Phe Thr Tyr His Ile Thr Val Phe Ser
225 230 235 240

Arg Asn Val Gln Val Ser Leu Val Lys Asn Gly Val Lys Ile Leu His
245 250 255

Thr Lys Asp Ala Tyr Met Ser Ser Glu Asp Gln Ala Ser Gly Gly Ile
260 265 270

Val Leu Gln Leu Lys Leu Gly Asp Glu Val Trp Leu Gln Val Thr Gly
275 280 285

Gly Glu Arg Phe Asn Gly Leu Phe Ala Asp Glu Asp Asp Asp Thr Thr
290 295 300

Phe Thr Gly Phe Leu Leu Phe Ser Ser Pro
305 310

<210> 244

<211> 36

<212> PRT

<213> Homo sapiens

<400> 244

Pro Ile Lys Phe Asp Lys Ile Leu Tyr Asn Glu Phe Asn His Tyr Asp
1 5 10 15

Thr Ala Ala Gly Lys Phe Thr Cys His Ile Ala Gly Val Tyr Tyr Phe
20 25 30

Thr Tyr His Ile
35

<210> 245

<211> 22

<212> PRT

<213> Homo sapiens

[illegible]

Val Trp Leu Gln Val Thr
20

<211> 20

<213> Homo sapiens

Val Trp Leu Gln
20

<211> 20

<213> Homo sapiens

Val Phe Ser Arg
20

<211> 27

<212> PRT

<213> Homo sapiens

<400> 248

Phe Pro Ser Ser Asp Arg Pro Ile Lys Phe Asp Lys Ile Leu Tyr Asn
1 5 10 15

Glu Phe Asn His Tyr Asp Thr Ala Ala Gly Lys
20 25

<210> 249

<211> 27

<212> PRT

<213> Homo sapiens

<400> 249

Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly
1 5 10 15

Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro
20 25

<210> 250

<211> 27

<212> PRT

<213> Homo sapiens

<400> 250

Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly
1 5 10 15

Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala
20 25

<210> 251

<211> 29

<212> PRT

<213> Homo sapiens

<400> 251

Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly
1 5 10 15

Arg Pro Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu
20 25

<210> 252

<211> 29

<212> PRT

<213> Homo sapiens

<400> 252

Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly
1 5 10 15

Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu
20 25

<210> 253

<211> 29

<212> PRT

<213> Homo sapiens

<400> 253

Gly Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly
1 5 10 15

Leu Ala Gly Pro Met Gly Glu Lys Gly Leu Arg Gly Glu
20 25

<210> 254

<211> 27

<212> PRT

<213> Homo sapiens

<400> 254

Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly
1 5 10 15

Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys
20 25

<210> 255

<211> 27

<212> PRT

<213> Homo sapiens

<400> 255

Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly
1 5 10 15

Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro
20 25

<210> 256

<211> 27

<212> PRT

<213> Homo sapiens

<400> 256

Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly
1 5 10 15

Glu Pro Gly Val Gln Gly Ile Arg Gly Trp Lys

25

<213> Homo sapiens

<213> Homo sapiens

<213> Homo sapiens

153

Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg
20 25

<210> 260

<211> 29

<212> PRT

<213> Homo sapiens

<400> 260

Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu
20 25

<210> 261

<211> 29

<212> PRT

<213> Homo sapiens

<400> 261

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly
1 5 10 15

Val Gln Gly Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu
20 25

<210> 262

<211> 29

<212> PRT

<213> Homo sapiens

<400> 262

Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly
 1 5 10 15

Pro Gln Gly Glu Pro Gly Val Gln Gly Ile Arg
 20 25

<210> 266

<211> 10

<212> PRT

<213> Homo sapiens

<400> 266

Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser
 1 5 10

<210> 267

<211> 27

<212> PRT

<213> Homo sapiens

<400> 267

Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly
 1 5 10 15

Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys
 20 25

<210> 268

<211> 27

<212> PRT

<213> Homo sapiens

<400> 268

Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly

1 5 10 15

Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys
20 25

<210> 269

<211> 27

<212> PRT

<213> Homo sapiens

<400> 269

Cys Arg Gln Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly
1 5 10 15

Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys
20 25

<210> 270

<211> 29

<212> PRT

<213> Homo sapiens

<400> 270

Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly Leu Pro Gly
1 5 10 15

Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu
20 25

<210> 271

<211> 945

<212> DNA

<213> Homo sapiens

<220>

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<223>

<400> 271

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att gaa atc tgc aca ggg aac ata aac tca cag gac acc tgc agg caa	99
Ile Glu Ile Cys Thr Gly Asn Ile Asn Ser Gln Asp Thr Cys Arg Gln	
10 15 20 25	
ggg cac cct ggc atc cct ggg aac ccc ggt cac aat ggt ctg cct gga	147
Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly	
30 35 40	
aga gat gga cga gac gga gcg aag ggt gac aaa ggc gat gca gga gaa	195
Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu	
45 50 55	
cca gga cgt cct ggc agc ccg ggg aag gat ggg acg agt gga gag aag	243
Pro Gly Arg Pro Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys	
60 65 70	
gga gaa cga gga gca gat gga aaa gtt gaa gca aaa ggc atc aaa ggt	291
Gly Glu Arg Gly Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys Gly	
75 80 85	
gat caa ggc tca aga gga tcc cca gga aaa cat ggc ccc aag ggg ctt	339
Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly Leu	
90 95 100 105	
gca ggg ccc atg gga gag aag ggc ctc cga gga gag act ggg cct cag	387
Ala Gly Pro Met Gly Glu Lys Gly Leu Arg Gly Glu Thr Gly Pro Gln	
110 115 120	
ggg cag aag ggg aat aag ggt gac gtg ggt ccc act ggt cct gag ggg	435
Gly Gln Lys Gly Asn Lys Gly Asp Val Gly Pro Thr Gly Pro Glu Gly	
125 130 135	
cca agg ggc aac att ggg cct ttg ggc cca act ggt tta ccg ggc ccc	483
Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly Leu Pro Gly Pro	
140 145 150	
atg ggc cct att gga aag cct ggt ccc aaa gga gaa gct gga ccc acg	531
Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr	
155 160 165	
ggg ccc cag ggt gag cca gga gtc cag gga ata aga ggc tgg aaa gga	579
Gly Pro Gln Gly Glu Pro Gly Val Gln Gly Ile Arg Gly Trp Lys Gly	

170	175								180				185				
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Asp Arg Gly Glu Lys Gly Lys Ile Gly Glu Thr Leu Val Leu Pro Lys																	
	190								195				200				
agt gct ttc act gtg ggg ctc acg gtg ctg agc aag ttt cct tct tca																	675
Ser Ala Phe Thr Val Gly Leu Thr Val Leu Ser Lys Phe Pro Ser Ser																	
	205								210				215				
gat agg ccc att aaa ttt gat aag atc cac atc act gtt ttc tcc aga																	723
Asp Arg Pro Ile Lys Phe Asp Lys Ile His Ile Thr Val Phe Ser Arg																	
	220								225				230				
aat gtt cag gtg tct ttg gtc aaa aat gga gta aaa ata ctg cac acc																	771
Asn Val Gln Val Ser Leu Val Lys Asn Gly Val Lys Ile Leu His Thr																	
	235								240				245				
aaa gat gct tac atg agc tct gag gac cag gcc tct ggc ggc att gtc																	819
Lys Asp Ala Tyr Met Ser Ser Glu Asp Gln Ala Ser Gly Gly Ile Val																	
	250								255				260				265
ctg cag ctg aag ctc ggg gat gag gtg tgg ctg cag gtg aca gga gga																	867
Leu Gln Leu Lys Leu Gly Asp Glu Val Trp Leu Gln Val Thr Gly Gly																	
	270								275				280				
gag agg ttc aat ggc ttg ttt gct gat gag gac gat gac aca act ttc																	915
Glu Arg Phe Asn Gly Leu Phe Ala Asp Glu Asp Asp Asp Thr Thr Phe																	
	285								290				295				
aca ggg ttc ctt ctg ttc agc agc ccg tga																	945
Thr Gly Phe Leu Leu Phe Ser Ser Pro																	
	300								305								

<210> 272

<211> 306

<212> PRT

<213> Homo sapiens

<400> 272

Met Arg Ile Trp Trp Leu Leu Leu Ala Ile Glu Ile Cys Thr Gly Asn
1 5 10 15

Ile Asn Ser Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly
20 25 30

Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala
35 40 45

Glu Val Trp Leu Gln Val Thr Gly Gly Glu Arg Phe Asn Gly Leu Phe
275 280 285

Ala Asp Glu Asp Asp Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser
290 295 300

Ser Pro
305

<210> 273

<211> 921

<212> DNA

<213> Homo sapiens

<400> 273

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ggaagagatg gacgagacgg agcgaagggt gacaaaggcg atgcaggaga accaggacgt	180
cctggcagcc cggggaagga tgggacgagt ggagagaagg gagaacgagg agcagatgga	240
aaagttgaag caaaaggcat caaaggatgat caaggctcaa gaggatcccc aggaaaacat	300
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caggggcaga aggggaataa gggtgacgtg ggtcccactg gtcctgaggg gccaaagggc	420
aacattgggc ctttgggccc aactggttta ccgggccccca tgggcccctat tggaaagcct	480
ggtcccaaag gagaagctgg acccacgggg ccccagggtg agccaggagt ccagggaata	540
agaggctgga aaggagatcg aggagagaaa gggaaaatcg gtgagactct agtcttgcca	600
aaaagtgctt tcaactgtggg gctcacgggtg ctgagcaagt ttcttcttct agataggccc	660
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tctggcggca ttgtcctgca gctgaagctc ggggatgagg tgtggctgca ggtgacagga	840
ggagagaggt tcaatggctt gtttgctgat gaggacgatg acacaacttt cacagggttc	900
cttctgttca gcagcccggtg a	921

<210> 274

<211> 287

<212> PRT

<213> Homo sapiens

<400> 274

Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro Gly Asn Pro Gly
1 5 10 15

His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp
20 25 30

Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro Gly Lys Asp
35 40 45

Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp Gly Lys Val Glu
50 55 60

Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys
65 70 75 80

His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys Gly Leu Arg
85 90 95

Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly Asp Val Gly
100 105 110

Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro
115 120 125

Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys
130 135 140

Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly Val Gln Gly
145 150 155 160

Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys Ile Gly Glu
165 170 175

Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu Thr Val Leu

180

185

190

Ser Lys Phe Pro Ser Ser Asp Arg Pro Ile Lys Phe Asp Lys Ile His
195 200 205

Ile Thr Val Phe Ser Arg Asn Val Gln Val Ser Leu Val Lys Asn Gly
210 215 220

Val Lys Ile Leu His Thr Lys Asp Ala Tyr Met Ser Ser Glu Asp Gln
225 230 235 240

Ala Ser Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu Val Trp
245 250 255

Leu Gln Val Thr Gly Gly Glu Arg Phe Asn Gly Leu Phe Ala Asp Glu
260 265 270

Asp Asp Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser Ser Pro
275 280 285

<210> 275

<211> 22

<212> PRT

<213> Homo sapiens

<400> 275

Asp Gln Ala Ser Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu
1 5 10 15

Val Trp Leu Gln Val Thr
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<210> 276

<211> 20

<212> PRT

<213> Homo sapiens

<400> 276

Asp Gln Ala Ser Gly Gly Ile Val Leu Gln Leu Lys Leu Gly Asp Glu
1 5 10 15

Val Trp Leu Gln
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<210> 277

<211> 27

<212> PRT

<213> Homo sapiens

<400> 277

Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly
1 5 10 15

Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro
20 25

<210> 278

<211> 27

<212> PRT

<213> Homo sapiens

<400> 278

Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly
1 5 10 15

Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala
20 25

<210> 279

<211> 29

<212> PRT

<213> Homo sapiens

<400> 279

Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly
1 5 10 15

Arg Pro Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu
20 25

<210> 280

<211> 29

<212> PRT

<213> Homo sapiens

<400> 280

Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly
1 5 10 15

Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu
20 25

<210> 281

<211> 29

<212> PRT

<213> Homo sapiens

<400> 281

Gly Asp Gln Gly Ser Arg Gly Ser Pro Gly Lys His Gly Pro Lys Gly
1 5 10 15

Leu Ala Gly Pro Met Gly Glu Lys Gly Leu Arg Gly Glu
20 25

<210> 282

<211> 27

<212> PRT

<213> Homo sapiens

<400> 282

Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly
1 5 10 15

Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys
20 25

<210> 283

<211> 27

<212> PRT

<213> Homo sapiens

<400> 283

Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly
1 5 10 15

Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro
20 25

<210> 284

<211> 27

<212> PRT

<213> Homo sapiens

<400> 284

Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly
1 5 10 15

Glu Pro Gly Val Gln Gly Ile Arg Gly Trp Lys
20 25

<210> 285

<211> 27

<212> PRT

<213> Homo sapiens

<400> 285

Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
 1 5 10 15

Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro
 20 25

<210> 286

<211> 29

<212> PRT

<213> Homo sapiens

<400> 286

Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly Leu Pro Gly
 1 5 10 15

Arg Asp Gly Arg Asp Gly Ala Lys Gly Asp Lys Gly Asp
 20 25

<210> 287

<211> 27

<212> PRT

<213> Homo sapiens

<400> 287

Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser Pro Gly
 1 5 10 15

Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg
 20 25

Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala
20 25

<210> 291

<211> 29

<212> PRT

<213> Homo sapiens

<400> 291

Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly
1 5 10 15

Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro Gly Pro
20 25

<210> 292

<211> 11

<212> PRT

<213> Homo sapiens

<400> 292

Asp Asp Thr Thr Phe Thr Gly Phe Leu Leu Phe
1 5 10

<210> 293

<211> 27

<212> PRT

<213> Homo sapiens

<400> 293

Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly
1 5 10 15

Pro Gln Gly Glu Pro Gly Val Gln Gly Ile Arg
20 25

<210> 294

<211> 10

<212> PRT

<213> Homo sapiens

<400> 294

Thr Thr Phe Thr Gly Phe Leu Leu Phe Ser
1 5 10

<210> 295

<211> 27

<212> PRT

<213> Homo sapiens

<400> 295

Gly Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys
20 25

<210> 296

<211> 27

<212> PRT

<213> Homo sapiens

<400> 296

Gly Ser Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly
1 5 10 15

Ala Asp Gly Lys Val Glu Ala Lys Gly Ile Lys

20

25

<210> 297

<211> 27

<212> PRT

<213> Homo sapiens

<400> 297

Cys Arg Gln Gly His Pro Gly Ile Pro Gly Asn Pro Gly His Asn Gly
1 5 10 15

Leu Pro Gly Arg Asp Gly Arg Asp Gly Ala Lys
20 25

<210> 298

<211> 29

<212> PRT

<213> Homo sapiens

<400> 298

Gly Pro Arg Gly Asn Ile Gly Pro Leu Gly Pro Thr Gly Leu Pro Gly
1 5 10 15

Pro Met Gly Pro Ile Gly Lys Pro Gly Pro Lys Gly Glu
20 25

<210> 299

<211> 245

<212> PRT

<213> Homo sapiens

<400> 299

Ala Ser Phe Leu Leu Gln Met Cys Pro Gly Pro Val Gln Ser Leu Ser
1 5 10 15

Ser Glu Pro Gly Ser Gly Gly Phe Cys Leu Pro Leu Lys Ser Ala Gln
20 25 30

Gly Thr Thr Pro Gln Asp Thr Cys Arg Gln Gly His Pro Gly Ile Pro
35 40 45

Gly Asn Pro Gly His Asn Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
50 55 60

Ala Lys Gly Asp Lys Gly Asp Ala Gly Glu Pro Gly Arg Pro Gly Ser
65 70 75 80

Pro Gly Lys Asp Gly Thr Ser Gly Glu Lys Gly Glu Arg Gly Ala Asp
85 90 95

Gly Lys Val Glu Ala Lys Gly Ile Lys Gly Asp Gln Gly Ser Gly Ser
100 105 110

Pro Gly Lys His Gly Pro Lys Gly Leu Ala Gly Pro Met Gly Glu Lys
115 120 125

Gly Leu Arg Gly Glu Thr Gly Pro Gln Gly Gln Lys Gly Asn Lys Gly
130 135 140

Asp Val Gly Pro Thr Gly Pro Glu Gly Pro Arg Gly Asn Ile Gly Pro
145 150 155 160

Leu Gly Pro Thr Gly Leu Pro Gly Pro Met Gly Pro Ile Gly Lys Pro
165 170 175

Gly Pro Lys Gly Glu Ala Gly Pro Thr Gly Pro Gln Gly Glu Pro Gly
180 185 190

Val Arg Gly Ile Arg Gly Trp Lys Gly Asp Arg Gly Glu Lys Gly Lys
195 200 205

Ile Gly Glu Thr Leu Val Leu Pro Lys Ser Ala Phe Thr Val Gly Leu
210 215 220

Thr Val Leu Ser Lys Phe Pro Ser Ser Asp Val Pro Ile Lys Phe Asp
225 230 235 240

Lys Ile His Ile Thr
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<210> 300

<211> 422

<212> DNA

<213> Homo sapiens

<220>

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<222> (1)..(422)

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gtgtactgtg atcttgctgc ttttatccat atgtcagctt tggttcttgt gagtttacct	180
gcttattatg atacttggag tccattcata gtgtggggaa gaatgatttt tgccctgcag	240
gagaaggctc aattgaaata atgctgcttg tccccaaaga aattgtttgc cttgtactct	300
tgtaaacctt agagctagac ctgggaatga ttcaacttca agccttaacc tggaattttc	360
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<212> DNA

<213> Homo sapiens

<220>

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<223>

<400> 301

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ctgattaatg gatggccgtg catgtctgtg tgggagtcgt gtgcttagga tctgctcagc	180
tctccgaaag caacagaa atg gtg tgg gga aga aga aaa tca cag gat tgt	231
Met Val Trp Gly Arg Arg Lys Ser Gln Asp Cys	
1 5 10	
gat cca acc atg atc acg gct ttc tgg att gga ctt cat ctt ctg gag	279
Asp Pro Thr Met Ile Thr Ala Phe Trp Ile Gly Leu His Leu Leu Glu	
15 20 25	
ggt cca caa ggt cca gtg ctg gca gca aac ctc acc att ttg tcc tcc	327
Gly Pro Gln Gly Pro Val Leu Ala Ala Asn Leu Thr Ile Leu Ser Ser	
30 35 40	
aaa agg aag gtg act ttt aag aag caa tcc aga aga ggt ccc cgc cca	375
Lys Arg Lys Val Thr Phe Lys Lys Gln Ser Arg Arg Gly Pro Arg Pro	
45 50 55	
acc ttc aaa att ctg tcc aaa agc aga caa gag gat cgc ccc gcg ctg	423
Thr Phe Lys Ile Leu Ser Lys Ser Arg Gln Glu Asp Arg Pro Ala Leu	
60 65 70 75	
agc cgg ctg gtg ggc agc agg agg cgc ctg atc gcc gcc ggg gcg ctg	471
Ser Arg Leu Val Gly Ser Arg Arg Arg Leu Ile Ala Ala Gly Ala Leu	
80 85 90	
ggg gtg gtg atg gtg ctg ctg ctg gtg atc ctc atc ccg gtg ctg atg	519
Gly Val Val Met Val Leu Leu Leu Val Ile Leu Ile Pro Val Leu Met	
95 100 105	
ctg ggc acc tgc cgc atg gtc tgc gac ccc tac ggg ggc acc aag gcg	567
Leu Gly Thr Cys Arg Met Val Cys Asp Pro Tyr Gly Gly Thr Lys Ala	
110 115 120	
ccc agc acc gct gcc acg ccc gac cgc ggc ctc atg cag tcc ctg ccc	615
Pro Ser Thr Ala Ala Thr Pro Asp Arg Gly Leu Met Gln Ser Leu Pro	
125 130 135	
acc ttc atc cag ggc ccc aaa ggc gag gcc ggc agg ccc ggg aag gcg	663
Thr Phe Ile Gln Gly Pro Lys Gly Glu Ala Gly Arg Pro Gly Lys Ala	
140 145 150 155	
ggt ccg cgc ggg ccc ccc gga gag ccc ggg cca ccc ggc ccc atg ggg	711
Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Met Gly	
160 165 170	

ccc Pro	ccg Pro	ggc Gly	gag Glu	aag Lys	ggc Gly	gag Glu	ccg Pro	ggc Gly	cgc Arg	caa Gln	ggc Gly	ctg Leu	ccg Pro	ggc Gly	ccg Pro	759	
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ccc Pro	ggg Gly	gcg Ala	ccc Pro	ggc Gly	ctg Leu	aac Asn	gcg Ala	gcc Ala	ggg Gly	gcc Ala	atc Ile	agc Ser	gcc Ala	gcc Ala	acc Thr	807	
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tac Tyr	agc Ser	acg Thr	ggg Gly	ccc Pro	aag Lys	atc Ile	gcc Ala	ttc Phe	tac Tyr	gcc Ala	ggc Gly	ctc Leu	aag Lys	cgg Arg	cag Gln	855	
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cat His	gaa Glu	ggc Gly	tac Tyr	gag Glu	gtg Val	ctc Leu	aag Lys	ttc Phe	gac Asp	gac Asp	gtg Val	gtc Val	acc Thr	aac Asn	ctc Leu	903	
220						225						230			235		
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			240						245						250		
ggc Gly	atc Ile	tac Tyr	ttc Phe	ttc Phe	acc Thr	tac Tyr	cac His	gtc Val	ctg Leu	atg Met	cgc Arg	gga Gly	ggg Gly	gac Asp	ggc Gly	999	
			255						260						265		
acc Thr	agc Ser	atg Met	tgg Trp	gct Ala	gat Asp	ctc Leu	tgc Cys	aaa Lys	aac Asn	aac Asn	cag Gln	gtg Val	cgt Arg	gct Ala	agt Ser	1047	
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gca Ala	att Ile	gcc Ala	caa Gln	gat Asp	gct Ala	gat Asp	cag Gln	aat Asn	tac Tyr	gac Asp	tat Tyr	gcc Ala	agt Ser	aac Asn	agt Ser	1095	
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gtg Val	gtt Val	ctt Leu	cat His	ttg Leu	gag Glu	ccg Pro	gga Gly	gat Asp	gaa Glu	gtc Val	tat Tyr	atc Ile	aaa Lys	tta Leu	gat Asp	1143	
300						305						310			315		
ggc Gly	ggg Gly	aaa Lys	gcc Ala	cat His	gga Gly	gga Gly	aac Asn	aac Asn	aac Asn	aaa Lys	tac Tyr	agc Ser	acg Thr	ttt Phe	tct Ser	1191	
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gga Gly	ttt Phe	att Ile	att Ile	tat Tyr	gct Ala	gac Asp	tga	taatgcagaa			actaagctta		ttattctgag			1245	
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tttgaacact			ggattcgtat			ggctaacgtc			agtgaatcaa			ggatcccagg			ggatgccaat		1305
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atcactcaga			aacattatgt			aaaaaatatc			aaagcaagat			aagcagatgt			gtgatccact		1425
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acaaattttt			atagacaaat			ctaagacatt			gaattatttc			ttctatatat			atgatacttt		1545
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tgcttattat			gatacttgga			gtccattcat			agtgtgggga			agaatgattt			ttgccctgca		1665

ggagaaggtc taattgaaat aatgctgctt gtcccccagg aaattgtttg ccttgtactc 1725
 ttgttaacct tagagctaga cctgggaatg attcaacttc aagccttaac ctggaatttt 1785
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<210> 302

<211> 338

<212> PRT

<213> Homo sapiens

<400> 302

Met Val Trp Gly Arg Arg Lys Ser Gln Asp Cys Asp Pro Thr Met Ile
 1 5 10 15

Thr Ala Phe Trp Ile Gly Leu His Leu Leu Glu Gly Pro Gln Gly Pro
 20 25 30

Val Leu Ala Ala Asn Leu Thr Ile Leu Ser Ser Lys Arg Lys Val Thr
 35 40 45

Phe Lys Lys Gln Ser Arg Arg Gly Pro Arg Pro Thr Phe Lys Ile Leu
 50 55 60

Ser Lys Ser Arg Gln Glu Asp Arg Pro Ala Leu Ser Arg Leu Val Gly
 65 70 75 80

Ser Arg Arg Arg Leu Ile Ala Ala Gly Ala Leu Gly Val Val Met Val
 85 90 95

Leu Leu Leu Val Ile Leu Ile Pro Val Leu Met Leu Gly Thr Cys Arg
 100 105 110

Met Val Cys Asp Pro Tyr Gly Gly Thr Lys Ala Pro Ser Thr Ala Ala
 115 120 125

Thr Pro Asp Arg Gly Leu Met Gln Ser Leu Pro Thr Phe Ile Gln Gly
 130 135 140

Pro Lys Gly Glu Ala Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro
145 150 155 160

Pro Gly Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys
165 170 175

Gly Glu Pro Gly Arg Gln Gly Leu Pro Gly Pro Pro Gly Ala Pro Gly
180 185 190

Leu Asn Ala Ala Gly Ala Ile Ser Ala Ala Thr Tyr Ser Thr Gly Pro
195 200 205

Lys Ile Ala Phe Tyr Ala Gly Leu Lys Arg Gln His Glu Gly Tyr Glu
210 215 220

Val Leu Lys Phe Asp Asp Val Val Thr Asn Leu Gly Asn His Tyr Asp
225 230 235 240

Pro Thr Thr Gly Lys Phe Thr Cys Ser Ile Pro Gly Ile Tyr Phe Phe
245 250 255

Thr Tyr His Val Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala
260 265 270

Asp Leu Cys Lys Asn Asn Gln Val Arg Ala Ser Ala Ile Ala Gln Asp
275 280 285

Ala Asp Gln Asn Tyr Asp Tyr Ala Ser Asn Ser Val Val Leu His Leu
290 295 300

Glu Pro Gly Asp Glu Val Tyr Ile Lys Leu Asp Gly Gly Lys Ala His
305 310 315 320

Gly Gly Asn Asn Asn Lys Tyr Ser Thr Phe Ser Gly Phe Ile Ile Tyr
325 330 335

Ala Asp

<210> 303

<211> 1017

Pro Thr Thr Gly Lys Phe Thr Cys Ser Ile Pro Gly Ile Tyr Phe Phe
 20 25 30

Thr Tyr His Val
 35

<210> 305

<211> 20

<212> PRT

<213> Homo sapiens

<400> 305

Phe Thr Cys Ser Ile Pro Gly Ile Tyr Phe Phe Thr Tyr His Val Leu
 1 5 10 15

Met Arg Gly Gly
 20

<210> 306

<211> 22

<212> PRT

<213> Homo sapiens

<400> 306

Asp Tyr Ala Ser Asn Ser Val Val Leu His Leu Glu Pro Gly Asp Glu
 1 5 10 15

Val Tyr Ile Lys Leu Asp
 20

<210> 307

<211> 27

<212> PRT

<213> Homo sapiens

<400> 307

Gly Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly
1 5 10 15

Glu Pro Gly Arg Gln Gly Leu Pro Gly Pro Pro
20 25

<210> 308

<211> 20

<212> PRT

<213> Homo sapiens

<400> 308

Asp Tyr Ala Ser Asn Ser Val Val Leu His Leu Glu Pro Gly Asp Glu
1 5 10 15

Val Tyr Ile Lys
20

<210> 309

<211> 27

<212> PRT

<213> Homo sapiens

<400> 309

Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly
1 5 10 15

Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro
20 25

<210> 310

<211> 27

<212> PRT

<213> Homo sapiens

<400> 310

Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys
20 25

<210> 311

<211> 27

<212> PRT

<213> Homo sapiens

<400> 311

Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly
1 5 10 15

Glu Lys Gly Glu Pro Gly Arg Gln Gly Leu Pro
20 25

<210> 312

<211> 29

<212> PRT

<213> Homo sapiens

<400> 312

Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu
20 25

<210> 313

<211> 27

<212> PRT

<213> Homo sapiens

<400> 313

Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly
1 5 10 15

Arg Gln Gly Leu Pro Gly Pro Pro Gly Ala Pro
20 25

<210> 314

<211> 27

<212> PRT

<213> Homo sapiens

<400> 314

Gln His Glu Gly Tyr Glu Val Leu Lys Phe Asp Asp Val Val Thr Asn
1 5 10 15

Leu Gly Asn His Tyr Asp Pro Thr Thr Gly Lys
20 25

<210> 315

<211> 27

<212> PRT

<213> Homo sapiens

<400> 315

Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly Arg Gln Gly
1 5 10 15

Leu Pro Gly Pro Pro Gly Ala Pro Gly Leu Asn
20 25

<210> 316

<211> 27

<212> PRT

<213> Homo sapiens

<400> 316

Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Met Gly
1 5 10 15

Pro Pro Gly Glu Lys Gly Glu Pro Gly Arg Gln
20 25

<210> 317

<211> 29

<212> PRT

<213> Homo sapiens

<400> 317

Gly Glu Ala Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly
1 5 10 15

Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu
20 25

<210> 318

<211> 29

<212> PRT

<213> Homo sapiens

<400> 318

Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly
1 5 10 15

Arg Gln Gly Leu Pro Gly Pro Pro Gly Ala Pro Gly Leu
20 25

<210> 319

<211> 44

<212> PRT

<213> Homo sapiens

<400> 319

Pro Arg Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Met Gly Pro
1 5 10 15

Pro Gly Glu Lys Gly Glu Pro Gly Arg Gln Gly Leu Pro Gly Pro Pro
20 25 30

Gly Ala Pro Gly Leu Asn Ala Ala Gly Ala Ile Ser
35 40

<210> 320

<211> 27

<212> PRT

<213> Homo sapiens

<400> 320

Gly Glu Ala Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly
1 5 10 15

Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro
20 25

<210> 321

<211> 29

<212> PRT

<213> Homo sapiens

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Gly Arg Gln Gly Leu Pro Gly Pro Pro Gly Ala Pro Gly Leu Asn Ala	
90 95 100	
gcc ggg gcc atc agc gcc gcc acc tac agc acg ggg ccc aag atc gcc	511
Ala Gly Ala Ile Ser Ala Ala Thr Tyr Ser Thr Gly Pro Lys Ile Ala	
105 110 115	
ttc tac gcc ggc ctc aag cgg cag cat gaa ggc tac gag gtg ctc aag	559
Phe Tyr Ala Gly Leu Lys Arg Gln His Glu Gly Tyr Glu Val Leu Lys	
120 125 130	
ttc gac gac gtg gtc acc aac ctc gga aac cac tac gac ccc acc acc	607
Phe Asp Asp Val Val Thr Asn Leu Gly Asn His Tyr Asp Pro Thr Thr	
135 140 145	
ggc aag ttc acc tgc tcc atc ccg ggc atc tac ttc ttc acc tac cac	655
Gly Lys Phe Thr Cys Ser Ile Pro Gly Ile Tyr Phe Phe Thr Tyr His	
150 155 160 165	
gtc ctg atg cgc gga ggg gac ggc acc agc atg tgg gct gat ctc tgc	703
Val Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Cys	
170 175 180	
aaa aac aac cag gtg cgt gct agt gca att gcc caa gat gct gat cag	751
Lys Asn Asn Gln Val Arg Ala Ser Ala Ile Ala Gln Asp Ala Asp Gln	
185 190 195	
aat tac gac tat gcc agt aac agt gtg gtt ctt cat ttg gag ccg gga	799
Asn Tyr Asp Tyr Ala Ser Asn Ser Val Val Leu His Leu Glu Pro Gly	
200 205 210	
gat gaa gtc tat atc aaa tta gat ggc ggg aaa gcc cat gga gga aac	847
Asp Glu Val Tyr Ile Lys Leu Asp Gly Gly Lys Ala His Gly Gly Asn	
215 220 225	
aac aac aaa tac agc acg ttt tct gga ttt att att tat gct gac tga	895
Asn Asn Lys Tyr Ser Thr Phe Ser Gly Phe Ile Ile Tyr Ala Asp	
230 235 240	
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Tyr Asp Pro Thr Thr Gly Lys Phe Thr Cys Ser Ile Pro Gly Ile Tyr
145 150 155 160

Phe Phe Thr Tyr His Val Leu Met Arg Gly Gly Asp Gly Thr Ser Met
165 170 175

Trp Ala Asp Leu Cys Lys Asn Asn Gln Val Arg Ala Ser Ala Ile Ala
180 185 190

Gln Asp Ala Asp Gln Asn Tyr Asp Tyr Ala Ser Asn Ser Val Val Leu
195 200 205

His Leu Glu Pro Gly Asp Glu Val Tyr Ile Lys Leu Asp Gly Gly Lys
210 215 220

Ala His Gly Gly Asn Asn Asn Lys Tyr Ser Thr Phe Ser Gly Phe Ile
225 230 235 240

Ile Tyr Ala Asp

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<211> 735

<212> DNA

<213> Homo sapiens

<400> 324

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ttcttcacct accacgtcct gatgcgcgga ggggacggca ccagcatgtg ggctgatctc	540

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tatgccagta acagtgtggt tcttcatttg gagccgggag atgaagtcta tatcaaatta 660
gatggcgggg aagcccatgg aggaaacaac aacaaatata gcacgttttc tggatttatt 720
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<210> 325

<211> 19

<212> PRT

<213> Homo sapiens

<400> 325

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1 5 10 15

Cys Arg Met

<210> 326

<211> 225

<212> PRT

<213> Homo sapiens

<400> 326

Val Cys Asp Pro Tyr Gly Gly Thr Lys Ala Pro Ser Thr Ala Ala Thr
1 5 10 15

Pro Asp Arg Gly Leu Met Gln Ser Leu Pro Thr Phe Ile Gln Gly Pro
20 25 30

Lys Gly Glu Ala Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro
35 40 45

Gly Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly
50 55 60

<213> Homo sapiens

<400> 330

Gly Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly
1 5 10 15

Glu Pro Gly Arg Gln Gly Leu Pro Gly Pro Pro
20 25

<210> 331

<211> 20

<212> PRT

<213> Homo sapiens

<400> 331

Asp Tyr Ala Ser Asn Ser Val Val Leu His Leu Glu Pro Gly Asp Glu
1 5 10 15

Val Tyr Ile Lys
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<210> 332

<211> 27

<212> PRT

<213> Homo sapiens

<400> 332

Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly
1 5 10 15

Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro
20 25

<210> 333

<211> 27

<212> PRT

<213> Homo sapiens

<400> 333

Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys
20 25

<210> 334

<211> 27

<212> PRT

<213> Homo sapiens

<400> 334

Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly
1 5 10 15

Glu Lys Gly Glu Pro Gly Arg Gln Gly Leu Pro
20 25

<210> 335

<211> 29

<212> PRT

<213> Homo sapiens

<400> 335

Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu
20 25

<210> 336

<211> 27

<212> PRT

<213> Homo sapiens

<400> 336

Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly
1 5 10 15

Arg Gln Gly Leu Pro Gly Pro Pro Gly Ala Pro
20 25

<210> 337

<211> 27

<212> PRT

<213> Homo sapiens

<400> 337

Gln His Glu Gly Tyr Glu Val Leu Lys Phe Asp Asp Val Val Thr Asn
1 5 10 15

Leu Gly Asn His Tyr Asp Pro Thr Thr Gly Lys
20 25

<210> 338

<211> 27

<212> PRT

<213> Homo sapiens

<400> 338

Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly Arg Gln Gly
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Leu Pro Gly Pro Pro Gly Ala Pro Gly Leu Asn

20

25

<210> 339

<211> 27

<212> PRT

<213> Homo sapiens

<400> 339

Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Pro Pro Gly Pro Met Gly
1 5 10 15

Pro Pro Gly Glu Lys Gly Glu Pro Gly Arg Gln
20 25

<210> 340

<211> 29

<212> PRT

<213> Homo sapiens

<400> 340

Gly Glu Ala Gly Arg Pro Gly Lys Ala Gly Pro Arg Gly Pro Pro Gly
1 5 10 15

Glu Pro Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu
20 25

<210> 341

<211> 29

<212> PRT

<213> Homo sapiens

<400> 341

Gly Pro Pro Gly Pro Met Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly
1 5 10 15

<400> 344

Gly Pro Pro Gly Glu Lys Gly Glu Pro Gly Arg Gln Gly Leu Pro Gly
1 5 10 15

Pro Pro Gly Ala Pro Gly Leu Asn Ala Ala Gly Ala Ile
20 25

<210> 345

<211> 452

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) .. (452)

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tactccacat ttagtggggt tttcttatat cctttccttt ccacacctta aggtggctgg 360
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<210> 346

<211> 3122

<212> DNA

<213> Homo sapiens

<400> 346

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145	150	155	160	
ggg ctc gtt ccg gga acg agt tca aag gag gaa agg gcg gca gct tcc				528
Gly Leu Val Pro Gly Thr Ser Ser Lys Glu Glu Arg Ala Ala Ala Ser	165	170	175	
ggc gcc ttc ccc aga ggg ccg gga gac gca cgc cag gag ctt cct ccg				576
Gly Ala Phe Pro Arg Gly Pro Gly Asp Ala Arg Gln Glu Leu Pro Pro	180	185	190	
ttg gaa gtc cct tcc gct ggc gac gtg ggc gct gtg gcc gcg gcc ctc				624
Leu Glu Val Pro Ser Ala Gly Asp Val Gly Ala Val Ala Ala Ala Leu	195	200	205	
gtg gag cct gag ccc tcc tca cgg cct ccg cgc agc cct ggg gcc ccc				672
Val Glu Pro Glu Pro Ser Ser Arg Pro Pro Arg Ser Pro Gly Ala Pro	210	215	220	
cgg cag ggt ccc tcg gca gcc cgc ggg aga ggc cgt ggg gcc ccg gca				720
Arg Gln Gly Pro Ser Ala Ala Arg Gly Arg Gly Arg Gly Ala Pro Ala	225	230	235	240
gga gtg tgg ttc aga gac gag gcg ccc tcg ccc ccg ccg ccc gca gag				768
Gly Val Trp Phe Arg Asp Glu Ala Pro Ser Pro Pro Pro Pro Ala Glu	245	250	255	
gcc ccg aag gag ccg ctg cag ccc gag ccc gcc ccg ccg agg ccc agc				816
Ala Pro Lys Glu Pro Leu Gln Pro Glu Pro Ala Pro Pro Arg Pro Ser	260	265	270	
ggc ccc gca acc gca gag gac cct ggg cga cgg ccc gtc ctg ccc cag				864
Gly Pro Ala Thr Ala Glu Asp Pro Gly Arg Arg Pro Val Leu Pro Gln	275	280	285	
cgg ccc ccc gag gag agg ccg ccc cag ccg cca ggc tcc acc ggg gtc				912
Arg Pro Pro Glu Glu Arg Pro Pro Gln Pro Pro Gly Ser Thr Gly Val	290	295	300	
atc gcg gag acg ggc cag gcc ggg ccc ccc gca ggc gca ggc gtg tct				960
Ile Ala Glu Thr Gly Gln Ala Gly Pro Pro Ala Gly Ala Gly Val Ser	305	310	315	320
ggg ccg ggt ctg ccg ccg ggc gtg gac ggc cag acc ggg agc ggc acc				1008
Gly Arg Gly Leu Pro Arg Gly Val Asp Gly Gln Thr Gly Ser Gly Thr	325	330	335	
gtc ccc ggc gca gaa ggc ttc gcg ggc gca cca gga tac ccg aag tca				1056
Val Pro Gly Ala Glu Gly Phe Ala Gly Ala Pro Gly Tyr Pro Lys Ser	340	345	350	
cct cct gta gct tcc cca gga gct ccg gtg cct tct ctg gtg tct ttt				1104
Pro Pro Val Ala Ser Pro Gly Ala Pro Val Pro Ser Leu Val Ser Phe	355	360	365	
tct gcg ggg ctc acc cag aag cct ttc ccc agt gat ggg ggc gtt gtc				1152
Ser Ala Gly Leu Thr Gln Lys Pro Phe Pro Ser Asp Gly Gly Val Val	370	375	380	

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acc ggg gtc ttc acg gct cct tat gat ggg cgc tac ctg atc acg gcc Thr Gly Val Phe Thr Ala Pro Tyr Asp Gly Arg Tyr Leu Ile Thr Ala 405 410 415	1248
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aac gtc gtg gtg act ggg ggc aag ctg gct cac aca gac ttt gat gaa Asn Val Val Val Thr Gly Gly Lys Leu Ala His Thr Asp Phe Asp Glu 485 490 495	1488
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2216

<210> 348

<211> 513

<212> PRT

<213> Homo sapiens

<400> 348

Met Glu Gly Asp Ala Gln Leu Ala Val Glu Gly Val Ser Ile Gly Pro
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Gly Thr Ala Val Pro Pro Ala Pro Gln Val Leu Arg Thr Trp Arg Phe
20 25 30

Gly Thr Glu Arg Gly Ser Val Cys Ser Ser Val Glu Gly Glu Thr Asn
35 40 45

Cys Phe Phe Glu Lys Ala Pro Leu Ser Lys Leu Thr Pro Gly Pro Phe
50 55 60

Ser Thr Thr Ser Asp Ser Phe Ser Glu Phe Ser Asp Glu Ser Ser Ile
65 70 75 80

Ser His Ala Ser Val Arg Asp Gly Ser Phe Lys Thr Lys Leu Asp Gly
85 90 95

Arg Ser Gly Gly Ser Arg Arg Phe Leu Ser Gly Pro Lys Gln Lys Ser
100 105 110

Asn Val Leu Arg Phe Gly Thr Leu Gly Ile Val Gly Thr Arg Leu Thr
115 120 125

Gly Ala Ala Gly Met Ala Phe Leu Gly Glu Arg Val Pro Gln Pro Gly
130 135 140

Pro Gly Ile Val Arg Arg Pro Val Asp Gly Arg Glu Gly Leu Pro Gly
145 150 155 160

Gly Leu Val Pro Gly Thr Ser Ser Lys Glu Glu Arg Ala Ala Ala Ser
165 170 175

Gly Ala Phe Pro Arg Gly Pro Gly Asp Ala Arg Gln Glu Leu Pro Pro
180 185 190

Leu Glu Val Pro Ser Ala Gly Asp Val Gly Ala Val Ala Ala Ala Leu
195 200 205

Val Glu Pro Glu Pro Ser Ser Arg Pro Pro Arg Ser Pro Gly Ala Pro
210 215 220

Arg Gln Gly Pro Ser Ala Ala Arg Gly Arg Gly Arg Gly Ala Pro Ala
225 230 235 240

Gly Val Trp Phe Arg Asp Glu Ala Pro Ser Pro Pro Pro Pro Ala Glu
245 250 255

Ala Pro Lys Glu Pro Leu Gln Pro Glu Pro Ala Pro Pro Arg Pro Ser
260 265 270

Gly Pro Ala Thr Ala Glu Asp Pro Gly Arg Arg Pro Val Leu Pro Gln
275 280 285

Arg Pro Pro Glu Glu Arg Pro Pro Gln Pro Pro Gly Ser Thr Gly Val
290 295 300

Ile Ala Glu Thr Gly Gln Ala Gly Pro Pro Ala Gly Ala Gly Val Ser
305 310 315 320

Gly Arg Gly Leu Pro Arg Gly Val Asp Gly Gln Thr Gly Ser Gly Thr
325 330 335

Val Pro Gly Ala Glu Gly Phe Ala Gly Ala Pro Gly Tyr Pro Lys Ser
340 345 350

Pro Pro Val Ala Ser Pro Gly Ala Pro Val Pro Ser Leu Val Ser Phe
355 360 365

Ser Ala Gly Leu Thr Gln Lys Pro Phe Pro Ser Asp Gly Gly Val Val
370 375 380

Leu Phe Asn Lys Val Leu Val Asn Asp Gly Asp Val Tyr Asn Pro Ser
385 390 395 400


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<210> 350

<211> 36

<212> PRT

<213> Homo sapiens

<400> 350

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Val Val Leu Phe Asn Lys Val Leu Val Asn Asp Gly Asp Val Tyr Asn
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Pro Ser Thr Gly Val Phe Thr Ala Pro Tyr Asp Gly Arg Tyr Leu Ile

20

25

30

Thr Ala Thr Leu
35

<210> 351

<211> 27

<212> PRT

<213> Homo sapiens

<400> 351

Phe Pro Ser Asp Gly Gly Val Val Leu Phe Asn Lys Val Leu Val Asn
1 5 10 15

Asp Gly Asp Val Tyr Asn Pro Ser Thr Gly Val
20 25

<210> 352

<211> 171

<212> PRT

<213> Homo sapiens

<400> 352

Glu Thr Ser Leu Glu Arg Glu Arg Leu Ser Phe Cys Thr Gly Ser Arg
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Thr Thr Arg Ser Ala Glu Leu Lys Ala Val Gly Phe Glu Ala Ala Leu
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Gln Glu Val Ile Thr Pro Glu Val Val Pro Ala Ser Gln Ser Glu Ala
35 40 45

Tyr Gln Thr Leu Arg Gln Asn Gln Ala Gln Val His Asn Phe Phe Phe
50 55 60

Phe Trp Gly Gly Asp Ser Pro Thr Leu Ser Pro Arg Leu Glu Cys Ser
65 70 75 80

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agc ctt gtg gta cca cct ttc tcc acc tat ggc tgc ggc ccg cag gaa Ser Leu Val Val Pro Pro Phe Ser Thr Tyr Gly Cys Gly Pro Gln Glu 220 225 230	1384
gat gac ggg ttg cgc ttc tgc tct gga gcc agc cct gtt gcc ggg aac Asp Asp Gly Leu Arg Phe Cys Ser Gly Ala Ser Pro Val Ala Gly Asn 235 240 245 250	1432
tgc aac ccg caa gat gat gcc aga gct cag ctt ccc tct ttt tat gtt Cys Asn Pro Gln Asp Asp Ala Arg Ala Gln Leu Pro Ser Phe Tyr Val 255 260 265	1480
gca gag ttt atg ctg ccc tgc act gag cag acg ctt tcg ctt acg cag Ala Glu Phe Met Leu Pro Cys Thr Glu Gln Thr Leu Ser Leu Thr Gln 270 275 280	1528
ccc tgc cct tca cct tgc cca gtg att ccg gaa taa ccttccggac Pro Cys Pro Ser Pro Cys Pro Val Ile Pro Glu 285 290	1574

1613

<213> Homo sapiens

Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Met Lys
165 170 175

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gcagccagcg gcaagtttac ttgccccatg ccaggcgtct acttcttcgc ttaccacgtg 480
ctcatgcgcg gcggcgacgg caccagcatg tgggccgacc tcatgaagaa cggacagggc 540
tgggggccta gaacggcctt gccctcagca gagtctgtgg cttggcagct caagggccag 600
ccaggagcct ctgcaatcat ctgcttattg cgcgtcaccg tcatccagtg ggagagcctt 660
gtggtaccac ctttctccac ctatggctgc ggcccgcagg aagatgacgg gttgcgcttc 720
tgctctggag ccagccctgt tgccgggaac tgcaaccgcg aagatgatgc cagagctcag 780
cttccctctt tttatgttg agagtttatg ctgccctgca ctgagcagac gctttcgctt 840
acgcagccct gcccttcacc ttgcccagtg attccggaat aa 882

<210> 357

<211> 15

<212> PRT

<213> Homo sapiens

<400> 357

Met Val Leu Leu Leu Val Ala Ile Pro Leu Leu Val His Ser
1 5 10 15

<210> 358

<211> 278

<212> PRT

<213> Homo sapiens

<400> 358

Ser Arg Gly Pro Ala His Tyr Glu Met Leu Gly Arg Cys Arg Met Val
1 5 10 15

Cys Asp Pro His Gly Pro Arg Gly Pro Gly Pro Asp Gly Ala Pro Ala
20 25 30

Ser Val Pro Pro Phe Pro Pro Gly Ala Lys Gly Glu Val Gly Arg Arg
35 40 45

Gly Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly
50 55 60

Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro
65 70 75 80

Gly Pro Gly Gly Val Ala Pro Ala Ala Gly Tyr Val Pro Arg Ile Ala
85 90 95

Phe Tyr Ala Gly Leu Arg Arg Pro His Glu Gly Tyr Glu Val Leu Arg
100 105 110

Phe Asp Asp Val Val Thr Asn Val Gly Asn Ala Tyr Glu Ala Ala Ser
115 120 125

Gly Lys Phe Thr Cys Pro Met Pro Gly Val Tyr Phe Phe Ala Tyr His
130 135 140

Val Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Met
145 150 155 160

Lys Asn Gly Gln Gly Trp Gly Pro Arg Thr Ala Leu Pro Ser Ala Glu
165 170 175

Ser Val Ala Trp Gln Leu Lys Gly Gln Pro Gly Ala Ser Ala Ile Ile
180 185 190

Cys Leu Leu Arg Val Thr Val Ile Gln Trp Glu Ser Leu Val Val Pro
195 200 205

Pro Phe Ser Thr Tyr Gly Cys Gly Pro Gln Glu Asp Asp Gly Leu Arg
210 215 220

Phe Cys Ser Gly Ala Ser Pro Val Ala Gly Asn Cys Asn Pro Gln Asp
225 230 235 240

Asp Ala Arg Ala Gln Leu Pro Ser Phe Tyr Val Ala Glu Phe Met Leu
245 250 255

Pro Cys Thr Glu Gln Thr Leu Ser Leu Thr Gln Pro Cys Pro Ser Pro
260 265 270

Cys Pro Val Ile Pro Glu
275

<210> 359

<211> 36

<212> PRT

<213> Homo sapiens

<400> 359

Val Leu Arg Phe Asp Asp Val Val Thr Asn Val Gly Asn Ala Tyr Glu
1 5 10 15

Ala Ala Ser Gly Lys Phe Thr Cys Pro Met Pro Gly Val Tyr Phe Phe
20 25 30

Ala Tyr His Val
35

<210> 360

<211> 20

<212> PRT

<213> Homo sapiens

<400> 360

Phe Thr Cys Pro Met Pro Gly Val Tyr Phe Phe Ala Tyr His Val Leu
1 5 10 15

Met Arg Gly Gly
20

<210> 361

<211> 27

<212> PRT

<213> Homo sapiens

<400> 361

Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Gly Pro Gly Gly
20 25

<210> 362

<211> 27

<212> PRT

<213> Homo sapiens

<400> 362

Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly
20 25

<210> 363

<211> 27

<212> PRT

<213> Homo sapiens

<400> 363

Gly Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly
1 5 10 15

Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro
20 25

<210> 364

<211> 27

<212> PRT

Variable	Mean	Standard deviation	Minimum	Maximum
Age	34.5	10.5	20	55
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	Low	High		
Health status	Good	Poor		
Smoking status	Smoker	Non-smoker		
Alcohol consumption	Regular	Occasional		
Exercise frequency	Regular	Occasional		
Stress level	Low	High		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Family size	Small	Large		
Work-life balance	Good	Poor		
Life satisfaction	High	Low		
Overall well-being	Good	Poor		

Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15

<210> 365

<212> PRT

<400> 365

Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Gly Pro Gly Gly Val Ala
20 25

<210> 366

<211> 27

<212> PRT

<213> Homo sapiens

<400> 366

Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly
1 5 10 15

Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro
20 25

<210> 367

<211> 29

<212> PRT

<213> Homo sapiens

<400> 367

Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly Pro Gly
20 25

<210> 368

<211> 29

<212> PRT

<213> Homo sapiens

<400> 368

Gly Ala Lys Gly Glu Val Gly Arg Arg Gly Lys Ala Gly Leu Arg Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu
20 25

<210> 369

<211> 27

<212> PRT

<213> Homo sapiens

<400> 369

Pro His Glu Gly Tyr Glu Val Leu Arg Phe Asp Asp Val Val Thr Asn
1 5 10 15

Val Gly Asn Ala Tyr Glu Ala Ala Ser Gly Lys
20 25

[illegible]

<212> PRT

<400> 370

<210> 371

<212> PRT

<400> 371

Gly Gly Val Ala Pro Ala Ala Gly Tyr Val Pro
20 25

<211> 27

<213> Homo sapiens

Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly
1 5 10 15

Pro Pro Gly Pro Gly Pro Gly Gly Val Ala Pro
20 25

<210> 373

<211> 24

<212> PRT

<213> Homo sapiens

<400> 373

Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly Pro
1 5 10 15

Gly Gly Val Ala Pro Ala Ala Gly
20

<210> 374

<211> 44

<212> PRT

<213> Homo sapiens

<400> 374

Arg Arg Gly Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro
1 5 10 15

Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro
20 25 30

Gly Pro Gly Pro Gly Gly Val Ala Pro Ala Ala Gly
35 40

<210> 375

<211> 27

<212> PRT

<213> Homo sapiens

<400> 375

Gly Arg Arg Gly Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly

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aaccacagag gggcctcccc ttgacggacg gcttggggag cggcaccgcc ggcttgagc	480
ccgcagagggc agggtaaggg gagcgggggg cagccgtcgg gggagtgcag acccaggccc	540
aaggcggggtc accgtctctg gcccgcggag agccccggcc ccggcagcca ttgcgcccaa	600
gagtgaggaa gatttgctgg ccctggcagc gtcgcggctg agccggcgca agaggggtggc	660
gggcgcggcc gtcggagtgg cc atg gtg ctg ctg ctg gtg gcc atc ccg	712
Met Val Leu Leu Leu Leu Val Ala Ile Pro	
1 5 10	
ctg ctg gtg cac agc tcc cgc ggg cca gcg cac tac gag atg ctg ggt	760
Leu Leu Val His Ser Ser Arg Gly Pro Ala His Tyr Glu Met Leu Gly	
15 20 25	
cgc tgc cgc atg gtg tgc gac ccg cat ggg ccc cgt ggc cct ggt ccc	808
Arg Cys Arg Met Val Cys Asp Pro His Gly Pro Arg Gly Pro Gly Pro	
30 35 40	
gac ggc gcg cct gct tcc gtg ccc ccc ttc ccg cca ggc gcc aag gga	856
Asp Gly Ala Pro Ala Ser Val Pro Pro Phe Pro Pro Gly Ala Lys Gly	
45 50 55	
gag gtg ggc cgg cgc ggg aaa gca ggc ctg cgg ggg ccc cct gga cca	904
Glu Val Gly Arg Arg Gly Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro	
60 65 70	
cca ggt cca aga ggg ccc cca gga gaa ccc ggc agg cca ggc ccc ccg	952
Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro	
75 80 85 90	
ggc cct ccc ggt cca ggt ccg ggc ggg gtg gcg ccc gct gcc ggc tac	1000
Gly Pro Pro Gly Pro Gly Pro Gly Gly Val Ala Pro Ala Ala Gly Tyr	
95 100 105	
gtg cct cgc att gct ttc tac gcg ggc ctg cgg cgg ccc cac gag ggt	1048
Val Pro Arg Ile Ala Phe Tyr Ala Gly Leu Arg Arg Pro His Glu Gly	
110 115 120	
tac gag gtg ctg cgc ttc gac gac gtg gtg acc aac gtg ggc aac gcc	1096
Tyr Glu Val Leu Arg Phe Asp Asp Val Val Thr Asn Val Gly Asn Ala	
125 130 135	
tac gag gca gcc agc ggc aag ttt act tgc ccc atg cca ggc gtc tac	1144
Tyr Glu Ala Ala Ser Gly Lys Phe Thr Cys Pro Met Pro Gly Val Tyr	
140 145 150	
ttc ttc gct tac cac gtg ctc atg cgc ggc ggc gac ggc acc agc atg	1192
Phe Phe Ala Tyr His Val Leu Met Arg Gly Gly Asp Gly Thr Ser Met	
155 160 165 170	

tgg gcc gac ctc atg aag aac gga cag gtc cgg gcc agc gcc att gct	1240
Trp Ala Asp Leu Met Lys Asn Gly Gln Val Arg Ala Ser Ala Ile Ala	
175 180 185	
cag gac gcg gac cag aac tac gac tac gcc agc aac agc gtc att ctg	1288
Gln Asp Ala Asp Gln Asn Tyr Asp Tyr Ala Ser Asn Ser Val Ile Leu	
190 195 200	
cac ctg gac gtg ggc gac gag gtc ttc atc aag ctg gac ggc ggg aaa	1336
His Leu Asp Val Gly Asp Glu Val Phe Ile Lys Leu Asp Gly Gly Lys	
205 210 215	
gtg cac ggc ggc aac acc aac aag tac agc acc ttc tcc ggc ttc atc	1384
Val His Gly Gly Asn Thr Asn Lys Tyr Ser Thr Phe Ser Gly Phe Ile	
220 225 230	
atc tac ccc gac tga gccggcccg ccccgctgcc ccgctcgccc cttctctccc	1439
Ile Tyr Pro Asp	
235	
gtcctcaccc acctoctgcc cgccccaccc gaggcgccac cccacccttt gagagcctgg	1499
cggtgggggtg gacccttcog ttcccgagg cggcctaaat gggcgaactc ttggtgctca	1559
agggtataag tggccgggaa gaggaggaga cccggccaga ggagcagagc gacttccgga	1619
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gaagacatta aaacagggta gtgcaggttc tccgtcacia ctttctctcg ccaccctctc	1859
gtcccctcgt ctccactttc aggctcaggc tccagccttg gcagccttcc tgtgaactgg	1919
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ctatccggac taggccttgg ggctacagct gctgctg	2016
<210> 378	
<211> 238	
<212> PRT	
<213> Homo sapiens	
<400> 378	
Met Val Leu Leu Leu Leu Val Ala Ile Pro Leu Leu Val His Ser Ser	
1 5 10 15	

Arg Gly Pro Ala His Tyr Glu Met Leu Gly Arg Cys Arg Met Val Cys
20 25 30

Asp Pro His Gly Pro Arg Gly Pro Gly Pro Asp Gly Ala Pro Ala Ser
35 40 45

Val Pro Pro Phe Pro Pro Gly Ala Lys Gly Glu Val Gly Arg Arg Gly
50 55 60

Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro
65 70 75 80

Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly
85 90 95

Pro Gly Gly Val Ala Pro Ala Ala Gly Tyr Val Pro Arg Ile Ala Phe
100 105 110

Tyr Ala Gly Leu Arg Arg Pro His Glu Gly Tyr Glu Val Leu Arg Phe
115 120 125

Asp Asp Val Val Thr Asn Val Gly Asn Ala Tyr Glu Ala Ala Ser Gly
130 135 140

Lys Phe Thr Cys Pro Met Pro Gly Val Tyr Phe Phe Ala Tyr His Val
145 150 155 160

Leu Met Arg Gly Gly Asp Gly Thr Ser Met Trp Ala Asp Leu Met Lys
165 170 175

Asn Gly Gln Val Arg Ala Ser Ala Ile Ala Gln Asp Ala Asp Gln Asn
180 185 190

Tyr Asp Tyr Ala Ser Asn Ser Val Ile Leu His Leu Asp Val Gly Asp
195 200 205

Glu Val Phe Ile Lys Leu Asp Gly Gly Lys Val His Gly Gly Asn Thr
210 215 220

Asn Lys Tyr Ser Thr Phe Ser Gly Phe Ile Ile Tyr Pro Asp
225 230 235

<210> 379

<211> 717

<212> DNA

<213> Homo sapiens

<400> 379

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gggtcccgacg gcgcgcctgc ttccgtgccc cccttcccg caggcgccaa gggagaggtg      180
ggccggcgcg ggaaagcagg cctgcggggg cccctggac caccaggtcc aagagggccc      240
ccaggagaac ccggcaggcc agggcccccg ggccctcccg gtccaggtcc gggcggggtg      300
gcgcccgtcg ccggctacgt gcctcgcatg gctttctacg cgggcctgcg gcggccccac      360
gagggttacg aggtgctgcg cttcgacgac gtggtgacca acgtgggcaa cgcttacgag      420
gcagccagcg gcaagtttac ttgccccatg ccaggcgtct acttcttcgc ttaccacgtg      480
ctcatgcgcg gcggcgacgg caccagcatg tgggccgacc tcatgaagaa cggacaggtc      540
cgggccagcg ccattgctca ggacgcggac cagaactacg actacgccag caacagcgtc      600
attctgcacc tggacgtggg cgacgaggtc ttcattcaagc tggacggcgg gaaagtgcac      660
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<210> 380

<211> 223

<212> PRT

<213> Homo sapiens

<400> 380

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Ser Arg Gly Pro Ala His Tyr Glu Met Leu Gly Arg Cys Arg Met Val
1          5          10          15

Cys Asp Pro His Gly Pro Arg Gly Pro Gly Pro Asp Gly Ala Pro Ala
          20          25          30

Ser Val Pro Pro Phe Pro Pro Gly Ala Lys Gly Glu Val Gly Arg Arg
          35          40          45

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Val Leu Arg Phe Asp Asp Val Val Thr Asn Val Gly Asn Ala Tyr Glu
1 5 10 15

Ala Ala Ser Gly Lys Phe Thr Cys Pro Met Pro Gly Val Tyr Phe Phe
20 25 30

Ala Tyr His Val
35

<210> 382

<211> 20

<212> PRT

<213> Homo sapiens

<400> 382

Phe Thr Cys Pro Met Pro Gly Val Tyr Phe Phe Ala Tyr His Val Leu
1 5 10 15

Met Arg Gly Gly
20

<210> 383

<211> 27

<212> PRT

<213> Homo sapiens

<400> 383

Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Gly Pro Gly Gly
20 25

<210> 384

<211> 27

<211> 27

<212> PRT

<213> Homo sapiens

<400> 387

Gly Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly
1 5 10 15

Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro
20 25

<210> 388

<211> 27

<212> PRT

<213> Homo sapiens

<400> 388

Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly
1 5 10 15

Pro Gly Pro Gly Gly Val Ala Pro Ala Ala Gly
20 25

<210> 389

<211> 29

<212> PRT

<213> Homo sapiens

<400> 389

Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Gly Pro Gly Gly Val Ala
20 25

<210> 390

<211> 27

<212> PRT

<213> Homo sapiens

<400> 390

Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly
1 5 10 15

Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro
20 25

<210> 391

<211> 29

<212> PRT

<213> Homo sapiens

<400> 391

Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly
1 5 10 15

Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly Pro Gly
20 25

<210> 392

<211> 29

<212> PRT

<213> Homo sapiens

<400> 392

Gly Ala Lys Gly Glu Val Gly Arg Arg Gly Lys Ala Gly Leu Arg Gly
1 5 10 15

Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu
20 25

<210> 393

<211> 27

<212> PRT

<213> Homo sapiens

<400> 393

Pro His Glu Gly Tyr Glu Val Leu Arg Phe Asp Asp Val Val Thr Asn
1 5 10 15

Val Gly Asn Ala Tyr Glu Ala Ala Ser Gly Lys
20 25

<210> 394

<211> 14

<212> PRT

<213> Homo sapiens

<400> 394

Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro Pro Gly Glu
1 5 10

<210> 395

<211> 27

<212> PRT

<213> Homo sapiens

<400> 395

Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly Pro
1 5 10 15

Gly Gly Val Ala Pro Ala Ala Gly Tyr Val Pro
20 25

<210> 396

<211> 27

<212> PRT

<213> Homo sapiens

<400> 396

Gly Pro Arg Gly Pro Pro Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly
1 5 10 15

Pro Pro Gly Pro Gly Pro Gly Gly Val Ala Pro
20 25

<210> 397

<211> 24

<212> PRT

<213> Homo sapiens

<400> 397

Gly Glu Pro Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Pro Gly Pro
1 5 10 15

Gly Gly Val Ala Pro Ala Ala Gly
20

<210> 398

<211> 44

<212> PRT

<213> Homo sapiens

<400> 398

Arg Arg Gly Lys Ala Gly Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro

10005499 12004
"65450001"

<400> 401

Phe Pro Pro Gly Ala Lys Gly Glu Val Gly Arg Arg Gly Lys Ala Gly
1 5 10 15

Leu Arg Gly Pro Pro Gly Pro Pro Gly Pro Arg Gly Pro
20 25

<210> 402

<211> 243

<212> PRT

<213> Macaca mulatta

<400> 402

Met Leu Leu Gly Ala Val Leu Leu Leu Leu Ala Leu Pro Ser His Gly
1 5 10 15

Gln Asp Thr Thr Thr Gln Gly Pro Gly Val Leu Leu Pro Leu Pro Lys
20 25 30

Gly Ala Cys Thr Gly Trp Met Ala Gly Ile Pro Gly His Pro Gly His
35 40 45

Asn Gly Val Pro Gly Arg Asp Gly Arg Asp Gly Thr Pro Gly Glu Lys
50 55 60

Gly Glu Lys Gly Asp Pro Gly Leu Ile Gly Pro Lys Gly Asp Thr Gly
65 70 75 80

Glu Thr Gly Val Thr Gly Ala Glu Gly Pro Arg Gly Phe Pro Gly Ile
85 90 95

Gln Gly Arg Lys Gly Glu Pro Gly Glu Gly Ala Tyr Val Tyr Arg Ser
100 105 110

Ala Phe Ser Val Gly Leu Glu Thr Tyr Val Thr Val Pro Asn Met Pro
115 120 125

Ile Arg Phe Thr Lys Ile Phe Tyr Asn Gln Gln Asn His Tyr Asp Gly
130 135 140

Ser Thr Gly Lys Phe His Cys Asn Ile Pro Gly Leu Tyr Tyr Phe Ala
145 150 155 160

Tyr His Ile Thr Val Tyr Met Lys Asp Val Lys Val Ser Leu Phe Lys
165 170 175

Lys Asp Lys Ala Met Leu Phe Thr Tyr Asp Gln Tyr Gln Glu Asn Asn
180 185 190

Val Asp Gln Ala Ser Gly Ser Val Leu Leu His Leu Glu Val Gly Asp
195 200 205

Gln Val Trp Leu Gln Val Tyr Gly Glu Gly Glu Arg Asn Gly Leu Tyr
210 215 220

Ala Asp Asn Asp Asn Asp Ser Thr Phe Thr Gly Phe Leu Leu Tyr His
225 230 235 240

Asp Thr Asn

<210> 403

<211> 240

<212> PRT

<213> Bos taurus

<400> 403

Met Leu Leu Gln Gly Ala Leu Leu Leu Leu Leu Ala Leu Pro Ser His
1 5 10 15

Gly Glu Asp Asn Met Glu Asp Pro Pro Leu Pro Lys Gly Ala Cys Ala
20 25 30

Gly Trp Met Ala Gly Ile Pro Gly His Pro Gly His Asn Gly Thr Pro
35 40 45

Gly Arg Asp Gly Arg Asp Gly Thr Pro Gly Glu Lys Gly Glu Lys Gly
50 55 60

Asp Ala Gly Leu Leu Gly Pro Lys Gly Glu Thr Gly Asp Val Gly Met
65 70 75 80

Thr Gly Ala Glu Gly Pro Arg Gly Phe Pro Gly Thr Pro Gly Arg Lys
85 90 95

Gly Glu Pro Gly Glu Ala Ala Tyr Val Tyr Arg Ser Ala Phe Ser Val
100 105 110

Gly Leu Glu Thr Arg Val Thr Val Pro Asn Val Pro Ile Arg Phe Thr
115 120 125

Lys Ile Phe Tyr Asn Gln Gln Asn His Tyr Asp Gly Ser Thr Gly Lys
130 135 140

Phe Tyr Cys Asn Ile Pro Gly Leu Tyr Tyr Phe Ser Tyr His Ile Thr
145 150 155 160

Val Tyr Met Lys Asp Val Lys Val Ser Leu Phe Lys Lys Asp Lys Ala
165 170 175

Val Leu Phe Thr Tyr Asp Gln Tyr Gln Glu Lys Asn Val Asp Gln Ala
180 185 190

Ser Gly Ser Val Leu Leu His Leu Glu Val Gly Asp Gln Val Trp Leu
195 200 205

Gln Val Tyr Glu Gly Glu Asn His Asn Gly Val Tyr Ala Asp Asn Val
210 215 220

Asn Asp Ser Thr Phe Thr Gly Phe Leu Leu Tyr His Asn Ile Val Glu
225 230 235 240

<210> 404

<211> 244

<212> PRT

<213> Homo sapiens

<400> 404

Met Leu Leu Leu Gly Ala Val Leu Leu Leu Leu Ala Leu Pro Gly His

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Asp	Gln	Glu	Thr	Thr	Ile	Gln	Gly	Pro	Gly	Val	Leu	Leu	Pro	Leu	Pro				
			20					25					30						
Lys	Gly	Ala	Cys	Thr	Gly	Trp	Met	Ala	Gly	Ile	Pro	Gly	His	Pro	Gly				
		35					40					45							
His	Asn	Gly	Ala	Pro	Gly	Arg	Asp	Gly	Arg	Asp	Gly	Thr	Pro	Gly	Glu				
	50					55					60								
Lys	Gly	Glu	Lys	Gly	Asp	Pro	Gly	Leu	Ile	Gly	Pro	Lys	Gly	Asp	Ile				
65					70					75					80				
Gly	Glu	Thr	Gly	Val	Pro	Gly	Ala	Glu	Gly	Pro	Arg	Gly	Phe	Pro	Gly				
				85					90					95					
Ile	Gln	Gly	Arg	Lys	Gly	Glu	Pro	Gly	Glu	Gly	Ala	Tyr	Val	Tyr	Arg				
			100					105					110						
Ser	Ala	Phe	Ser	Val	Gly	Leu	Glu	Thr	Tyr	Tyr	Thr	Ile	Pro	Asn	Met				
		115					120					125							
Pro	Glu	Arg	Phe	Thr	Lys	Ile	Phe	Tyr	Asn	Gln	Gln	Asn	His	Tyr	Asp				
	130					135					140								
Gly	Ser	Thr	Gly	Lys	Phe	His	Cys	Asn	Ile	Pro	Gly	Leu	Tyr	Tyr	Phe				
145					150					155					160				
Ala	Tyr	His	Ile	Thr	Val	Tyr	Met	Lys	Asp	Val	Lys	Val	Ser	Leu	Phe				
				165					170					175					
Lys	Lys	Asp	Lys	Ala	Met	Leu	Phe	Thr	Tyr	Asp	Gln	Tyr	Gln	Glu	Asn				
			180					185					190						
Asn	Tyr	Asp	Gln	Ala	Ser	Gly	Ser	Val	Leu	Leu	His	Leu	Glu	Val	Gly				
		195					200					205							
Asp	Gln	Val	Trp	Leu	Gln	Val	Tyr	Gly	Glu	Gly	Glu	Arg	Asn	Gly	Leu				
	210					215					220								
Tyr	Ala	Asp	Asn	Asp	Asn	Asp	Ser	Thr	Phe	Thr	Gly	Phe	Leu	Leu	Tyr				
225					230					235					240				

His Asp Thr Asn

For the 64000